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tacccgagga ttaataaaga atctttacgg cctgtagcaa aggacgtgtc ttactcaggg    720

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atcggtgcca aggaccacgc atccatccag atgaacgtgg ccgaggttga caaggtcaca       180

ggcaggttta atggccagtt taaaacttat gctatctgcg gggccattcg taggatgggt       240

gagtcagatg attccattct ccgattggcc aaggccgatg gcatcgtctc aaagaacttt       300

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123

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<210> 93
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<212> DNA
<213> Homo sapiens

<400> 93
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ggctgtgccc tcgactttcc agcttcccat gtttctttgg ttaggtttct ctccttcct   180

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tgccactcat ttcagaactt gagcaaaaca gggcagtcag gatctgatgt ctttctggtc   360

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<213>  Homo sapiens

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ttggggatgt ggtccttgct gctctgcggg ttgtccatcg cccttccact gtctgtcaca   180

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aattctagca aaatcccagt gtccaaaatc atacagtcta gaattcacca ggacgagact   360

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cgaatcagag aagggggtgga aacccatgtc tcttttcggg aacataattt gtacacagta   1020

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ggagtgtcca cagcatacat tatattacag ctcccagctc cggattttcg agcttacttg   1140

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ttcttttttg cgtgtggcag ttttaagtta ttagttttta aaatcagtac tttttaatgg     1140

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gacagcccac cccggccgca gcccgcgttc aagtaccagt tcgtgaggga gcccgaggac      240

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gtgctggaga ggaagcccgc cgccgggctg tccgcggccc cagtgcccac cgcccctgcc      360

gccggcgcgc ccctgatgga cttcggaaat gacttcgtgc cgccggcgcc ccggggaccc      420

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127

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gtaatagtag caaatcctag ggaagaaata atcgtgaaaa ataaagatga agaagagaag   1140

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cccagctcat caccattaga agcttcttca gttaattatg aaagcataaa acatgagcct   2100

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129

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<213> Homo sapiens

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148

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151

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162

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<213> Homo sapiens

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tctggatgga gcctgtcagt attacagtta gttttctagt gactcataaa ataagatttc     960

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<212>   DNA
<213>   Homo sapiens

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tggcatacca gaatgcataa aacaagttga tcaagaactt aatggaaaac aagatgaacc      1140

gaaaaatgaa cagtaagttt ggcatctagt ccaaacaaga ctgaagaatg tgctgatgga      1200

gcagtgctgt ttctgcattc ataatgcatt tattggccca tatttttatg taacctgtta      1260

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agatgcaagc gcattgcaca cttttttcctt tctaaactta aagacaagtc aaaaagccat      1860

tcttagaact agaggattta agcagggtcg gaattacggg tttgtatata tgtatatact      1920
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165

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cgtttgtata tatgtatata ctgggacatt ttatcttctg gcccaaagtc agaactttat    1980

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ctgagtgtat atgagtgctg agtagtattg cagagaatgt gatgagttat cactgtcaca    2100

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ctttaaaaag aagacaagaa aagaagtggt ttatcaaaat cacgttataa tcagattttg    180

accaagcatt ttgtaagatt gccaagtatg cccacggaca tggaacacac aggacattac    240

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aacaaacaga taggttagtg aagaaaaatg caaagtagca atgagaaggc ttatggagta    960

aaaatgaagt cagttggtat ttaatcccaa agtgttgttc tgattatcta aaatttgaca    1020

tggtagacct tgcaatttag aatcaagcag gtgagacagg gagaagtatg cctgcttaat   1080

tatttaaact gtgtactttt gttttgacac tgaatatttt aaaaagcaaa taataaaata   1140
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actaagcatt tgaggaaaat tttaaggata aattgaggaa actgattaat agagatagca    1200

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agaataggtc ctttatcttt ccatatggca cacgtaagaa agtgtttttc tactattaat    1500

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ctccgtaccc ggacgaaggc ggggcgcccg ctggcaaagc gcattttcca gcgcaagctg        180

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168

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atagactaca gattatagtg acttcaccct aggttaacat tatttctagg taaggtacta    180

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atcacttata aatggcgccg aagcaggacc cgaagcctaa attccaggag ggtgagcgag    180

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177

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185

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186

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187

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<213>  Homo sapiens

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catctgatgg tccagaaaga gccccaccag tacagccacc gcaaccgcca ttctgctacc    360

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<213>   Homo sapiens

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gctgatataa tggccaagag gaatcagaaa cctgaagtta gaaaggctca acgagaacaa        360

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<213>   Homo sapiens

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<213>   Homo sapiens

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<213>   Homo sapiens

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<213> Homo sapiens

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tgaaaggccc cttaggtcag atcctgagag tagcacattt gagtgcagat tcctgggccc      600

cacctcaaac ctactaattc tgaatctctg ggaatagggc caggaaatct gccctttcta      660

caaactaccc aagttgttct gttgcacatc aatgtttggg aaccactgct gtaagggaat      720

cattctggtc accttgagct ttgagctacc actaagccat gaaagaaaat acatcataca      780

gggaagagag aagggaggag gttccaagta gtaactggca gatcctcctg tctggaggta      840

ccaccttcta ttctggtttc tgacttttcc ttcttgatga ccatagatgt gttccagagg      900

caaaagagac acattatccc agatggcaga acatgctttc aaaacatata aaatgtcaaa      960

gttccagatc cttctacatc tttagtcctg tctgaggatg gtagctggct ctctgtagct      1020

gatagatggc tagagttcca tccaaatcct tgaccacgac ttcatggaga tttgaataat      1080

ctatttgatg agatttctat ttcaataacc cacctctctc accccacatt catatcccta      1140

aatttgaccc tctgggccga gtcacattac cttcaggaga cttgatccca gtagactgag      1200

gtcttccctt tcagcagaaa gatttcattt ccctggcttg ccagtggcac tgatttccga      1260

acacccaatg agtttaatat tctttcctcc ttggcattac tgccccagcc gcttttttttt      1320

ttttttttgtg tgtgtctaat aaccaggaaa aaaataaagc ttaggtttta aaaagtttta      1380
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193

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aaaataatct gtttcagaaa ctgtcaaatg taccatattt gtattaagag ttgttgggaa    1440

tttttgtaca atgaatttac atttatttat ggtgacatat ttacgcttgt gatcaaataa    1500

tgatgttaaa ttcttaaatc atatttgcta tgcagctgaa gatgatattt tgatttgtat    1560

tttgggggta cctgtgttga gttgataaac atttccatct tcattaaaac tgcttccaaa    1620

ctaaaaaaaa aaaa                                                      1634
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<212>  DNA
<213>  Homo sapiens

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tcatggccgc tcagatcgtg agcggccggg gctgctctct ttgcggagga tggcgtctaa   180

tgagcgcagt tgattcgagg aagtactagc cggacatcat gagtggctgt cgggtattca   240

tcgggagact aaatccagcg gccagggaga aggacgtgga aagattcttc aagggatatg   300

gacggataag agatattgat ctgaaaagag gctttggttt tgtggaattt gaggatccaa   360

gggatgcaga tgatgctgtg tatgagcttg atggaaaaga actctgtagt gaaagggtta   420

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gttttagtag tcgcagacct cgaaatgata cacggtatgt gaagggtgga tggctgcatt   540

gaacaattat tgtagggta gcatttaaga ttcaggagtc attagcagtg atgattttgg   600

gacctgccgt ataatctgtt cttctattcc cacgttagcc aattgttctt gatgaatcta   660

tatgagtcat agaacacaaa tctattgacg gaagtcatta gaatggcttg tgatatctga   720

tggcttgaac ttgcccacag ttgaacacaa gtgctgtcat tgcatttctt ccattgtgaa   780

tacgaatttt cttcctcaga aatgctccac ctgtaagaac agaaaatcgt cttatagttg   840

agaatttatc ctcaagagtc agctggcagg atctcaaaga tttcatgaga caagctgggg   900

aagtaacgtt tgcggatgca caccgaccta aattaaatga aggggtggtt gagtttgcct   960

cttatggtga cttaaagaat gctattgaaa aactttctgg aaaggaaata aatgggagaa  1020

aaataaaatt aattgaaggc agcaaaaggc acaggtcaag aagcaggtct cgatcccgga  1080

ccagaagttc ctctaggtct cgtagccgat cccgttcccg tagtcgcaaa tcttacagcc  1140

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ccgtgcctga gaagagccag aaacgtggtt cttcaagtag atctaagtct ccagcatctg  1260

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194

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ctgtaaataa cttgccctgg gggccttttt ttttaaaaaa caaaaaccac aaaaattccc   1380

aaaccatact tgctaaaaat tctggtaagt atgtgctttt ctgtgggggt gggatttgga   1440

aggggggttg ggttgggctg gatatctttg tagatgtgga ccaccaaggg gttgttgaaa   1500

actaattgta ttaaatgtct tttgataagc cttctgctca cattttttgtg aatgtctgaa   1560

gtatatagtt tgtgtatatt gacagagctc ttttataact aaagcaaatt taattttttt   1620

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gtttaatgcc ttaattaaac taattaatag ctttggacac ttaaaagagc tctaaatttg   1740

cttgtacata aaggcttaat ttgttttcct tgttagggtc aagggtgtcc tccactcttt   1800

aacagctgct ggacagacac attagagcag ctgtttgtta ttgataataa aatattataa   1860

aacta                                                              1865
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<210> 139
<211> 1198
<212> DNA
<213> Homo sapiens

<400> 139
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ggaatcccct actctactgt gtgtagcctt actgttcttc gctccagatg gcgtgttagc   180

agtccctcag aaacctaagg tctccttgaa ccctccatgg aatagaatat ttaaaggaga   240

gaatgtgact cttacatgta atgggaacaa tttctttgaa gtcagttcca ccaaatggtt   300

ccacaatggc agcctttcag aagagacaaa ttcaagtttg aatattgtga atgccaaatt   360

tgaagacagt ggagaataca atgtcagca ccaacaagtt aatgagagtg aacctgtgta   420

cctggaagtc ttcagtgact ggctgctcct tcaggcctct gctgaggtgg tgatggaggg   480

ccagcccctc ttcctcaggt gccatggttg gaggaactgg gatgtgtaca aggtgatcta   540

ttataaggat ggtgaagctc tcaagtactg gtatgagaac cacaacatct ccattacaaa   600

tgccacagtt gaagacagtg gaacctacta ctgtacgggc aaagtgtggc agctggacta   660

tgagtctgag cccctcaaca ttactgtaat aaaagctccg cgtgagaagt actggctaca   720

attttttatc ccattgttgg tggtgattct gtttgctgtg gacacaggat tatttatctc   780

aactcagcag caggtcacat ttctcttgaa gattaagaga accaggaaag gcttcagact   840

tctgaaccca catcctaagc caaaccccaa aaacaactga tataattact caagaaatat   900

ttgcaacatt agttttttc cagcatcagc aattgctact caattgtcaa acacagcttg   960

caatatacat agaaacgtct gtgctcaagg atttatagaa atgcttcatt aaactgagtg  1020
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aaactggtta agtggcatgt aatagtaagt gctcaattaa cattggttga ataaatgaga    1080

gaatgaatag attcatttat tagcatttgt aaaagagatg ttcaatttca ataaaataaa    1140

tataaaacca tgtaacagaa tgcttctgag taaaaaaaaa aaaaaaaaaa aaaaaaa       1198
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<211>    453
<212>    DNA
<213>    Homo sapiens


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<222>    (182)..(182)
<223>    n is a, c, g, t or u

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agtaaaatgt taagactgag atttagaatt catttaatga gcccaaattg tattttatgt     120

atgagtaaac tgaggcacag taagactaag ttaactgccc aaactcttcc acctggttag     180

tngggaaaat aacatttcca accctgatct ttctggttcc tgaaccagga tagctggact     240

gtacttcccc atttttgaaa aagctgctaa aaacttggtt acaaacttta agtgacacgt     300

ttctccattt atgtggtggt tatagcaacg gtacaactct ctatttataa attaaacctt     360

gagaaacacc catctccact tcctagacaa accaatgaac attagtctta tttttctccc     420

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agaaaatgtc agagggtgtt acagtggcta cac
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<212>    DNA
<213>    Homo sapiens


<220>
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<222>    (159)..(159)
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tttgaaagca cttaagcact cctccttgtg gaaagaatat accaccattt catctggcta     120

gttcaccatc acaactgcat taccaaaagg ggattttnc aaacgcggag ttgaccaaaa     180

                                                                      222
taatatctga ggatgattgc ttttccctgc tgccagctga tc
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<210>    142
<211>    1851
<212>    DNA
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<213>   Homo sapiens

<400>   142

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ccgcgagccg gccgagctcc agccggagct acgtgactac gtccacccgc acctacagcc     240

tgggcagcgc gctgcgcccc agcaccagcc gcagcctcta cgcctcgtcc ccgggcggcg     300

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tgcaggactc ggtggacttc tcgctggccg acgccatcaa caccgagttc aagaacaccc     420

gcaccaacga gaaggtggag ctgcaggagc tgaatgaccg cttcgccaac tacatcgaca     480

aggtgcgctt cctggagcag cagaataaga tcctgctggc cgagctcgag cagctcaagg     540

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aggtggacca gctaaccaac gacaaagccc gcgtcgaggt ggagcgcgac aacctggccg     660

aggacatcat cgcctccggg agaaattgc aggaggagat gcttcagaga gaggaagccg     720

aaaacaccct gcaatctttc agacaggatg ttgacaatgc gtctctggca cgtcttgacc     780

ttgaacgcaa agtggaatct ttgcaagaag agattgcctt tttgaagaaa ctccacgaag     840

aggaaatcca ggagctgcag gctcagattc aggaacagca tgtccaaatc gatgtggatg     900

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aggctgccaa ccggaacaat gacgccctgc gccaggcaaa gcaggagtcc actgagtacc    1080

ggagacaggt gcagtccctc acctgtgaag tggatgccct taaaggaacc aatgagtccc    1140

tggaacgcca gatgcgtgaa atggaagaga ctttgccgt tgaagctgct aactaccaag    1200

acactattgg ccgcctgcag gatgagattc agaatatgaa ggaggaaatg gctcgtcacc    1260

ttcgtgaata ccaagacctg ctcaatgtta agatggccct tgacattgag attgccacct    1320

acaggaagct gctggaaggc gaggagagca ggatttctct gcctcttcca aacttttcct    1380

ccctgaacct gagggaaact aatctggatt cactccctct ggttgatacc cactcaaaaa    1440

ggacattcct gattaagacg gttgaaacta gagatggaca ggttatcaac gaaacttctc    1500

agcatcacga tgaccttgaa taaaaattgc acacactcag tggcaggcga tatattaccc    1560

aggcaagaat aaaaaagaaa tcccatatct taaagaaaca gctttcaagt gcctttctgc    1620

agttttttcag gagcgcaaga tagatttgga ataggaataa gctctagttc ttaacaaccg    1680

acactcctac aagatttaga aaaagtttta caacataatc tagtttacag aaaaatcttg    1740
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tgctagaata cttttttaaaa ggtatttttga ataccattaa aactgctttt ttttttccag   1800

caagtatcca accaacttgg ttctgcttca ataaatcttt ggaaaactcc a            1851
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<213>   Homo sapiens

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aaatgaccca gaatacatta gggagaggaa catgtctcct gatctacgac aagacttcaa   180

catgatggag cagaggaaac gagttactca gatcctgcaa agtcctgcct ttcgggaaga   240

cttggaatgc cttattcaag aacagatgaa gaaaggccac aacccaactg gattactagc   300

attacagcag attgcagatt acatcatggc caattctttc tcgggttttt cttcacctcc   360

tctcagtctt ggcatggtca cacctatcaa tgaccttcct ggtgcagata catcctcata   420

tgtgaaggga gaaaaactta ctcgctgtaa acttgccagc ctgtacagac ttgtagactt   480

gtttggatgg gcacacctgg caaataccta tatctcagta agaataagta aggagcaaga   540

ccacattata ataattccca gaggcctatc tttttctgaa gctacagcct ccaatttggt   600

gaaagtcaat ataataggag aagtggttga ccagggaagt accaatttga aaattgacca   660

tacaggattc agtccccatg ctgcaatcta ttcaacacgt cctgatgtta agtgtgtcat   720

acacatccat accccttgcaa cagcagctgt atcctccatg aaatgtggga tccttccaat   780

ttctcaagag tctcttcttc tgggagatgt tgcctattat gactaccaag ggtcacttga   840

agaacaggag gagagaattc aactgcagaa ggttctggga ccaagttgta aggtgctggt   900

actcaggaat catggtgtgg ttgcacttgg agaaacatta gaggaggctt ttcattatat   960

ttttaatgtg caactagcct gtgagattca ggtgcaggcc ctagcaggtg caggtggagt  1020

agacaatctc catgtactgg actttcagaa gtataaagct ttcacttaca ctgtagcagc  1080

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tgtgcctgag gagtctcgga acggagaaac cagtccccga accaaaatca cgtggatgaa  1440

agcagaagac tcatctaaag ttagtggtgg aacacctatc aaaattgaag atccaaatca  1500
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acaaaatcga tatgacttga aaacagcagg accacaatct cagttgcttg ctggaattgt    1620

tgtggataag ccaccttcta ctatgcaatt tgaagatgat gatcatggcc caccagctcc    1680

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tgtttcacaa attcagtctc aaactcagtc accgcaaaat gtccctgaaa aattagaaga    1860

aaaccatgag ctgttttcca agagcttcat ctccatggaa gtgcctgtca tggtagtaaa    1920

tggcaaggat gatatgcatg atgttgaaga tgagcttgct aagcgagtga gtaggttaag    1980

cacaagtaca accatagaaa acatcgagat tactattaag tctccagaga aaatcgaaga    2040

agtcctgtca cctgaaggct ccccttcaaa atcgccatcc aagaaaaaga agaaattccg    2100

cactccttct tttctgaaaa agaacaaaaa aaaggagaaa gttgaggcct aaataaagtc    2160

tttttataat tattattata acaatgtgac attgcacatc taaataccac atttaagttg    2220

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tcagtgggca ttaacagaat gctttaaaaa cttctaagac aagaatctat agcattagta    2640

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tataattttt gaaaacttcc ttttttatta gtttagaaag cccttatttt ttcaacaaag    2820

                                                                      2864
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<213>   Homo sapiens

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gaaagggcag tttcttcaat gggggggtag ccctcaataa ttatatataa aatggctgcc     180

aaaccagtaa gactgctttt atacatccat cattttcagg attggggggaa accggggcat     240
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atttttccca aataactttg cctccttggg cacaaggccc aattcgctca catttactta   300

aatgacagtc ccttgggaat aacacccaaa gttgatccag gggggataag gatttttctt   360

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<211> 876
<212> DNA
<213> Homo sapiens

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tgtgggagcc ctgctcatgg gtctccacat gagccagaaa cacacggaga tggttctgga   240

gatgagcatt ggggcgccgg aagcccagca acgcctggcc ctgagtgagc acctggttac   300

cactgccacc ttctccatcg gctccactgg cctcgtggtg tatgactacc agcagctgct   360

gatcgcctac aagccagccc ctggcacctg ctgctacatc atgaagatag ctccagagag   420

catccccagt cttgaggctc tcaatagaaa agtccacaac ttccagatgg aatgctctct   480

gcaggccaag cccgcagtgc tacgtctaa gctgggccag gcagaggggc gagatgcagg   540

ctcagcaccc tccggagggg acccggcctt cctgggcatg ccgtgaaca ccctgtgtgg   600

cgaggtgccg ctctactaca tctaggacgc ctccgggtca gtggaagccc aacgggaaa   660

ggaaacgccc cgggcaaagg gtctttgca gcttttgcag acgggcaaga agctgcttct   720

gcccacaccg cagggacaaa ccctggagaa atgggagctt ggggagagga tgggagtggg   780

cagaggtggc acccaggggc ccgggaactc ctgccacaac agaataaagc agcctgattg   840

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<210> 146
<211> 1875
<212> DNA
<213> Homo sapiens

<400> 146
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gaactggaac gctccaccct tcaggacagt gatgaatatt ccaacccagc tcctcttccc   180

ctggatcagc attccagaaa ggagactaac cttgatgaga cttcggagat cctttctatt   240

caggataaca caagtccctt gccggcgcag ctcgtgtata ctaccaatat ccaggagctc   300

aatgtctaca gtgaagccca agagccaaag gaatcaccac caccttctaa aacgtcagca   360

gctgctcagt tggatgagct catggctcac ctgactgaga tgcaggccaa ggttgcagtg   420

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ggccattgtg catcctgcca gaaaccgatt gctgggaagg tgatccatgc tctagggcaa     600

tcatggcatc ctgagcattt tgtctgtact cattgcaaag aagagattgg ctccagtccc     660

ttctttgagc ggagtggctt ggcctactgc cccaacgact accaccaact tttttctcca     720

cgctgtgctt actgcgctgc tcccatcctg gataaagtgc tgacagcaat gaaccagacc     780

tggcacccag agcacttctt ctgctctcac tgcggagagg tgtttggtgc agaaggcttt     840

catgagaagg acaagaagcc atattgccga aaggatttct tagccatgtt ctcacccaag     900

tgtggtggct gcaatcgccc agtgttggaa aactaccttt cagccatgga cactgtctgg     960

cacccagagt gctttgtttg tgggggactgc ttcaccagtt tttctactgg ctccttcttt    1020

gaactggatg gacgtccatt ctgtgagctc cattaccatc accgccgggg aacgctctgc    1080

catgggtgtg ggcagcccat cactggccgt tgtatcagtg ccatggggta caagttccat    1140

cctgagcact ttgtgtgtgc tttctgcctg acacagttgt cgaagggcat tttcagggag    1200

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caaataaagg aacttctaga ctttacatga ctaggctgat aatcttattt tttaggcttc    1440

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aaaaaaaaaa aaaaa                                                    1875
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acagttagct aattaggaca agctctattt ttcatccctg ggccctgaca agtttttcca     420

caggaatatg tatcatggaa gaatagaggt tattctgtaa tggaaaagtg ttgcctgcca     480

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atctgagtat attatcctgt acacttatcc ctaccttcat gttccagtgg aagaccttag     660

taaaatcaaa gatcagtgag ttcatctgta atattttttt tacttgcttt cttactgaca     720

gcaaccagga atttttttta tcctgcagag caagttttca aaatgtaaat acttcctctg     780

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agaggactag atcaccttag tttgattcta tttttttagct tgcaaaaagt gacttatatt    1080

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aattacactt cgactctcaa agcaatacca ggatagctgt tgtttcagag aaaggatcgt     180

gtgctgcatc tcctccttgg cgcctcattg ctgtaatttt gggaatccta tgcttggtaa     240

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gaagtaaaag acaatgctgg caactgggct ctaatctcct aaagatagac agctcaaatg     420

aattgggatt tatagtaaaa caagtgtctt cccaacctga taattcattt tggataggcc     480

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tctgatgatg aatataaaaa gtaaccaacc tcattggaac aagtattaac attttggaat    2040

atgttttatt agttttgtga tgtactgttt tacaatttt accattttt tccagtaatt      2100

acctgtaaaa tggtattatt ggaatgaaac tatatttcct catgtgctga tttgtcttat    2160

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gcacgctttt ctatatactt cgttccccgc caaccgcaac cattgacgcc atgtcgggtt   180

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ttggttatcc aatgccaaca ggatattccc aataagactt tagaagtata tgtaaatgtc    2040

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gctgagagaa tcgcccagcc ctccgcagcc gcccagcgag aaccggagct gcggccccgc    180

accggcgtga gtccagctga gctgacacgc cgagccggtt gtgcctttcc gagggaggaa    240

tgtgccgtgg aatccaaact ttggaaaacg tcccacccga attcccagcg agcagcaagg    300

agaccagagc gtcgatggag ccaccgttag ttgcgggtgg gctgtcccca agaggaattc    360

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gccaaatata agatgataaa ctgaagaata aaaacagctg acaaatactg tatagaaaag    660

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ggtcgggaag gggcgctggg agaagcgggg cagcgctgag ccatgctcgc gaactgtggg      180

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cgaaagcctg tgcgagattt accccgtctt ccgcctccct cccaccggaa aactctgagg      360

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caaaaagccg aaggagtaaa ggtgctgcaa tgatgttagc tgtggccact gtggattttt      480

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208

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ccaccaccaa ccccaggtaa aaaagtctcc ctctcttcca ctcacaccca tagcgggaga   2820

gacctcatgc agatttgcat tgttttggag taagaattca atgcagcagc ttaatttttc   2880

tgtattgcag tgtttatagg cttcttgtgt gttaaacttg atttcataaa ttaaaaacaa   2940

tggtcagaaa aaaaaaaaaa aaaaaaa                                       2967
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<212>   DNA
<213>   Homo sapiens

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ccttaaagtg aaataatttt ttgcaaaggg gtttcctcga tttggagctt ttttttcctt   180

ccaccgtcat ttctaactct taaaaccaac tcagttccat catggtgatg ttcaagaaga   240

tcaagtcttt tgaggtggtc tttaacgacc ctgaaaaggt gtacggcagt ggcgagaggg   300

tggctggccg ggtgatagtg gaggtgtgtg aagttactcg tgtcaaagcc gttaggatcc   360

tggcttgcgg agtggctaaa gtgctttgga tgcagggatc ccagcagtgc aaacagactt   420

cggagtacct gcgctatgaa gacacgcttc ttctggaaga ccagccaaca ggtgagaatg   480

agatggtgat catgagacct ggaaacaaat atgagtacaa gttcggcttt gagcttcctc   540

aggggcctct gggaacatcc ttcaaaggaa aatatgggtg tgtagactac tgggtgaagg   600

cttttcttga ccgcccgagc cagccaactc aagagacaaa gaaaaacttt gaagtagtgg   660

atctggtgga tgtcaatacc cctgatttaa tggcacctgt gtctgctaaa aagaaaaga   720

aagtttcctg catgttcatt cctgatgggc gggtgtctgt ctctgctcga attgacagaa   780

aaggattctg tgaaggtgat gagatttcca tccatgctga ctttgagaat acatgttccc   840

gaattgtggt ccccaaagct gccattgtgg cccgccacac ttaccttgcc aatggccaga   900

ccaaggtgct gactcagaag ttgtcatcag tcagaggcaa tcatattatc tcagggacat   960

gcgcatcatg gcgtggcaag agccttcggg ttcagaagat caggccttct atcctgggct  1020

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caacaactcc tctgctagat gacatggatg gctctcaaga cagccctatc tttatgtatg  1320

cccctgagtt caagttcatg ccaccaccga cttatactga ggtggatccc tgcatcctca  1380

acaacaatgt gcagtgagca tgtggaagaa aagaagcagc tttacctact tgtttctttt  1440

tgtctctctt cctggacact cacttttca gagactcaac agtctcgtca atggagtgtg  1500

ggtccacctt agcctctgac ttcctaatgt aggaggtggt cagcaggcaa tctcctgggc  1560

cttaaaggat gcggactcat cctcagccag cgccatgtt gtgatacagg ggtgtttgtt  1620

ggatgggttt aaaaataact agaaaaactc aggcccatcc attttctcag atctccttga  1680
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aaattgaggc cttttcgata gtttcgggtc aggtaaaaat ggcctcctgg cgtaagcttt    1740

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tatcatgtgg agaagagcca atttaacaaa ctaggaagat gaaaagggaa attgtggcca    1860

aaactttggg aaaaggaggt tcttaaaatc agtgtttccc ctttgtgcac ttgtagaaaa    1920

aaaagaaaaa ccttctagag ctgatttgat ggacaatgga gagagctttc cctgtgatta    1980

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ctccccttct gccatcttaa atgtaagctg aaactggtct actgtgtctc tagggttaag    2280

ccaaaagaca aaaaaaattt tactactttt gagattgccc caatgtacag aattatataa    2340

ttctaacgct taaatcatgt gaaagggttg ctgctgtcag ccttgcccac tgtgacttca    2400

aacccaagga ggaactcttg atcaagatgc ccaaccctgt gatcagaacc tccaaatact    2460

gccatgagaa actagagggc aggtgttcat aaaagccctt tgaaccccct tcctgccctg    2520

tgttaggaga tagggatatt ggcccctcac tgcagctgcc agcacttggt cagtcactct    2580

cagccatagc actttgttca ctgtcctgtg tcagagcact gagctccacc cttttctgag    2640

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accc                                                                   2704
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<211>    1199
<212>    DNA
<213>    Homo sapiens

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tcatccaggc cgagttctat ctgaatcctg accaatcagg cgagtttatg tttgactttg    180

atggtgatga gattttccat gtggatatgg caaagaagga cggtctggg cggcttgaag    240

aatttggacg atttgccagc tttgaggctc aaggtgcatt ggccaacata gctgtggaca    300

aagccaacct ggaaatcatg acaaagcgct ccaactatac tccgatcacc aatgtacctc    360

cagaggtaac tgtgctcacg aacagccctg tggaactgag agagcccaac gtcctcatct    420

gtttcatcga caagttcacc ccaccagtgg tcaatgtcac gtggcttcga aatggaaaac    480

ctgtcaccac aggagtgtca gagacagtct tcctgcccag ggaagaccac cttttccgca    540
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agttccacta tctccccttc ctgccctcaa ctgaggacgt ttacgactgc agggtggagc     600

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gtcatcttca gcgttttcca gccctatagc caccccaagt gtggttatgc ctcctcgatt     960

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tcctctattt cctatcattt tattatcacc atgcaatgcc tctggaataa aacatacagg    1080

agtctgtctc tgctatggaa tgccccatgg ggctctcttg tgtacttatt gtttaaggtt    1140

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<212>   DNA
<213>   Homo sapiens

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agtggctcat ttggatgaga actaccctct atttttaata ttaaaactac atccaactca     180

tcatttagcc tttggttgta cagttgtgta atgggctatg gactgttaca caccttacca     240

cctctaggcc tatgtttttt ctttccccat atattctgat ggggataaat actgttttgc     300

ctctcccata ggaatggaat acatttattc taaaatgatc tttcacagaa gtaagagaga     360

gggaaaccta aatatacctc taaattgttt gaagttggtc ccagcagcat aaaatgggtt     420

ggccccaaag ggttggaggg tgggcttggt tatcagtatt tgttttcaga atgagatggg     480

agcatctttc ctttgccacg tgctttgtgc ttgataacat catgcttggt tcaaacgaca     540

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ggtttaattt tttaattttt tttttttaata ggggtgggag ggagggtact ttgccccaaa     660

agggagggtg tctgcactaa ggatttagaa acactttgga agctcataac ctcatcagaa     720

actgccttta gccacactcc tgaccttcta gatgagtaac aaaaaaatga ataagttct      780

tggaaattaa gccatttatt ttaatttgct attttttttca atgttctagg tatctttaaa     840

tattgtggaa tcattttcct gccagatacc tttatcaaaa ttattggcct catgagagct     900

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atggtagaga attccaatgt ccctagccac aagggaccag ttccactgag aagtgaacag      1380

tgggaactca aaatttcaga aacattgggg gaagggaaaa ttggctttct cttaattggc      1440

agatgttcca gtggggggggg gggggggctc tgttttttgtt gggatgtgtt atgttgtatg      1500

tacgcatata tggaccggag tctgctgagt ttataaggtt ccaaaaatat ggtaaaatct      1560

tggttttttgt taatttatct caataaaagc ccactggaac tcc                      1603
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<211>   2439
<212>   DNA
<213>   Homo sapiens

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tgaatgagac catcaattac aacgaggagt tcacctggcg cctgggtgag aactatgctg      360

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cagggtggca ttcctctgct ggctgctggc caatgtgatg ctctccatgc ctgtgctggt      600

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213

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ccataaaacc agcagaactg ccctcagggt ggctgttacc agacacccag caccaatcta   1140

cagacggagt agaaaaagga ggctctatat actgatgtta aaaacaaaa caaacaaaa   1200

agccctaagg gactgaagag atgctgggcc tgtccataaa gcctgttgcc atgataaggc   1260

caagcagggg ctagcttatc tgcacagcaa cccagccttt ccgtgctgcc ttgcctcttc   1320

aagatgctat tcactgaaac ctaacttcac ccccataaca ccagcagggt gggggttaca   1380

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agggtgtctt gacccatggc cgtgtccgcc tgctactgag taaggggcat tcctgttaca   1860

gaccaaggag aactggagaa agaaagagaa aatcagttcg tggttgcatt gtggatgcaa   1920

atctgagcgt tctcaacttg gttattgtaa aaaaggaga gaaggatatt cctggactga   1980

ctgatactac agtgcctcgc cgcctgggcc ccaaaagagc tagcagaatc cgcaaacttt   2040

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aaggtaagaa acctaggacc aaagcaccca agattcagcg tcttgttact ccacgtgtcc   2160

tgcagcacaa acggcggcgt attgctctga agaagcagcg taccaagaaa aataaagaag   2220

aggctgcaga atatgctaaa ccttttggcc aagagaatga aggaggctaa ggagaagcgc   2280

caggaacaaa ttgcgaagag acgcagactt tcctctctgc gagcttctac ttctaagtct   2340

gaatccagtc agaaataaga ttttttgagt aacaaataaa taagatcaga ctctgaaaaa   2400

aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaa              2439
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<212> DNA
<213> Homo sapiens

<400> 158
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214

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aacaggaaaa tggaaaaatc tgaccaattc tgccaccctg agactttcat atagaccttg    360

cacaacaatt gtatagatca cacaccggct gtatttaata tgtaacattt tcacacatat    420

taaagataca gaagtattaa aaaaccccca atgttaatgt atttgcttaa aaggcacaag    480

tttcacatat ctgtctagct atctgttggt aatacagaaa gtatactact tttttaaaaa    540

agtgggcaga attcttgtgt atgtatattt gtgtgtacag tatgtgtatg tgtgtatata    600

tatatattat atatatagat aatatataaa tattttttt aaggagaaac tagaacgttt    660

agctagaaaa ttccacagcc tgtgaagaaa tatttcaaaa tggccataaa ggaggtaaaa    720

atgaaaaacc ataacctaac ttttatagag gctttatctt taatttaacg atgtgcggag    780

gactttcttg cttgaatctg ttccgggctg tctgctctgt ccatcaaatg ggcaggtctg    840

gaatgaggca ccttcggccg ttcagaagtg gcctgaacag aatgctggaa cccaggctgg    900

actcggacac actaaggttt tgattttgaa tttcagcctt attagaagat ctaacctaag    960

agtaagctaa ccacagggat tcttttgtag aacacttttt atgcagatga agctattttt    1020

tccagcaagt agattcttcc agttttccca aggagtaatt tccccgaatt ggcataccac    1080

ggcgtggaca gctgatattt cacccagctg ctggcttgtg ggtgtggctc tttgctttat    1140

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gagcagtgac taacgctcac ataactggtt ttttttctt atctgggctg atgaatacat    1260

ttacctaaga aactcatttc gttttactta agaggggaag tgcagttttc ttttggcagt    1320

tcagaatcca agcacttgat ttgctgggtt tggaaaactc cttttttggc cttctatgtg    1380

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aaaa                                                                1444
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<213>   Homo sapiens
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gagtccctga actctcgctt tcttttttaat ccctgcatc ggatcaccgg cgtgccccac    180

catgtcagac gcagccgtag acaccagctc cgaaatcacc accaaggact taaaggagaa    240
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gaaggaagtt gtggaagagg cagaaaatgg aagagacgcc cctgctaacg ggaatgctaa          300

tgaggaaaat ggggagcagg aggctgacaa tgaggtagac gaagaagagg aagaaggtgg          360

ggaggaagag gaggaggaag aagaaggtga tggtgaggag gagggtggag atgaagatga          420

ggaagctgag tcagctacgg gcaagcgggc agctgaagat gatgaggatg acgatgtcga          480

taccaagaag cagaagaccg acgaggatga ctagacagca aaaaaggaaa agttaaacta          540

aaaaaaaaaa ggccgccgtg acctattcac cctccacttc ccgtctcaga atctaaacgt          600

ggtcaccttc gagtagagag gcccgcccgc ccaccgtggg cagtgccacc cgcagatgac          660

acgcgctctc caccacccaa cccaaaccat gagaatttgc aacagggag gaaaaaagaa          720

ccaaaacttc caaggccctg cttttttttct taaagtact ttaaaaagga aatttgtttg          780

tattttttat ttacattta tatttttgta catattgtta gggtcagcca tttttaatga          840

tctcggatga ccaaaccagc cttcggagcg ttctctgtcc tacttctgac tttacttgtg          900

gtgtgaccat gttcattata atctcaaagg agaaaaaaaa ccttgtaaaa aaagcaaaaa          960

tgacaacaga aaaacaatct tattccgagc attccagtaa cttttttgtg tatgtactta         1020

gctgtactat aagtagttgg tttgtatgag atggttaaaa aggccaaaga taaaaggttt         1080

cttttttttt cctttttttgt ctatgaagtt gctgtttatt tttttggcc tgtttgatgt         1140

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<212>   DNA
<213>   Homo sapiens

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agccagcgcc cgccgacgga gccgacccgc cgcccgccga ggagcccgag gcccggcccg      840

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cgtcggggga acgggacgac cggggacccc cgccagcgt ggcggcgctc aggtccaact      960

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tgagaaaatg ggtcctgtcg ggaatcctgg ctagcgagga gacttacctg agccacctgg     2040

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acggagttgc catggaaatg gctgagaagt ctgtcaggc caatgctcag tttgcagaaa     2340

tctccgagaa cctgagagcc agaagcaaca aagatgccaa ggatccaacg accaagaact     2400
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ccatcaataa ggaagatgat gagtctccgg ggctctatgg gtttctgaat gtcatcgtcc   3240

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tggggaaggg ccaggtccag ctggacccgc aggccctgca ggacagagac tggcagcgca   3540

ccgtcatcgc catgaatggg atcgaagtaa agctctcggt caagttcaac agcagggagt   3600

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aggtcatgtc ccaggtccag gtgctgctgt acttcctgca gctggaggcc atccctgccc   4260
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218

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agagtccagg cctgaccctg ggagacaggg tgaagggagt gattttttatg aacttaactt      4620

agagtctaaa agatttctac tggatcactt gtcaagatgc ccctctctg gggagaaggg      4680

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<213>  Homo sapiens

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cgcttggttt tccttgcagt cgcctgctgc tgtcgtcggg aggaaagatg aatgggaggg      180

ctgattttcg agagccgaat gcagaggttc caagaccaat tccccacata gggcctgatt       240

acattccaac agaggaagaa aggagagtct tcgcagaatg caatgatgaa agcttctggt       300

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tgggatactt tgctggaaaa ctttcttatg tgaaaacttg ccaagagaaa ttcaagaaac      480

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agaacagaga gtcatatgaa gtatctttaa cacaaaagac tgacccctca gtcaggccta      840

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agtgaaaaat tacatcattg gacatgaagg agtttcaaca tccagcttca tctaggtggt      960

catgattacc tgcatgcttt gagctcagca gcagtcttca taaacacatt taaaacaaga     1020

tcctgggttt ttgtggtttg acttctatgg tgttttaaaa aaacacagat ttttagtgtt     1080

aatattgtgt aaatgtactc accttaggga ttcatttgaa tgatggtatt ataccatgat     1140
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tgtatacagt ttgtgaaatt gttgcaaggg caaagataac tcttaaaaaa ccgtcgagat    1200

tacaatgctc tagaatcagc atataagaaa ataaatgata tctgcatgtt gaattggggt    1260

ggatggggggg agcaagcata atttttaagt gtgaagcttt gcatcaagaa attattaaaa   1320

agcttttttt ctccagtatt ttctgtatta tcttaatgtt tatggcaaat aaaatgtaaa    1380

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<211>   1161
<212>   DNA
<213>   Homo sapiens

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gaacagaatg caaaaagtgg tcgctattct gtcaacttca gaaagcagc gaaatccgtc     300

gccttaacca tttcagcctt acagctagaa gattcagcaa agtacttttg tgctcttggg    360

acgggggtga ggggactcca ggacaccgat aaactcatct ttggaaaagg aacccgtgtg    420

actgtggaac caagaagtca gcctcatacc aaaccatccg tttttgtcat gaaaaatgga    480

acaaatgtcg cttgtctggt gaaggaattc taccccaagg atataagaat aaatctcgtg    540

tcatccaaga agataacaga gtttgatcct gctattgtca tctctcccag tgggaagtac    600

aatgctgtca agcttggtaa atatgaagat tcaaattcag tgacatgttc agttcaacac    660

gacaataaaa ctgtgcactc cactgacttt gaagtgaaga cagattctac agatcacgta    720

aaaccaaagg aaactgaaaa cacaaagcaa ccttcaaaga gctgccataa acccaaagcc    780

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tgactggcat gaggaagcta cactcctgaa gaaaccaaag cttacaaaa atgcatctcc     960

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<211>   387
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220

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<212>  DNA
<213>  Homo sapiens

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ggaaaagcgt aacagtttcc atgccctcag cctaaagctt acagggaggg cttttcacag     180

ttgaaacatc actgttttaa aacacaaaat catgctcccc cttcataagc agaggggag      240

gaggtcaaac agtttgtttt tgccaaacgt tggctttatc tgaactctat ctagtatgaa     300

ggactggctg ccgcaggcaa taccccagag gggaaaggga ccaaaggaaa aaaggggtgc     360

tggcaaacaa aatttaacaa acctgtc                                         387


<210>  164
<211>  538
<212>  DNA
<213>  Homo sapiens


<220>
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<222>  (410)..(410)
<223>  n is a, c, g, t or u

<220>
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ccccaggagg gctttatttt tttttttaaa aatccggttt gggggtttcc ttggtttttt     120

ttgcccgtat cccaaaaacc cgggcgttgg cccggcccat acggaaacta gcaaaggttt     180

tgaaattttt tttttcctaa gggaggaccc gagctttttc cttttataa acgttccgga      240

cgggcataac cggcccggcc agttggggggg ccagtttaat tttttaaaaa aaactgtttc     300

ccttttttggg ggccgagggc ttcctgggga aaaggataat tttggagcgg tcctccttca     360

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taaagccggg gcccggccgc acctttgtg tgtaccaaac cgtgggggcaa cncacgat       538


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<213>  Homo sapiens

<400>  165
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ggaaatcctc acgtggtaga aatggaagag agaaaccaca gccaaagcag taagtataag       120

ctggaaacct agagcccatg gaaattgcag aggagccaaa tttaggctct agagactggg       180

ctgaaattaa agcacctgtg tgagaatagg acatgtggcc ttaggcttgc ttggaggaga       240
                                                                        272
gaaaatggtt ttttcatttg tttgtttttaa ga
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<210>   166
<211>   4276
<212>   DNA
<213>   Homo sapiens
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cactggcggc ggcggggccg gggtccgcaa ggccggagaa ggccgccggg cccgggcatg       180

gtggtctggg gcaacgcgga agaagctcca ccatgaggcg aggtggatgg aggaagcgag       240

ctgaaaatga tggctgggaa acatggggtg ggtatatggc tgccaaggtc cagaaattgg       300

aggaacagtt tcgatcagat gctgctatgc agaaggatgg gacttcatct acaattttta       360

gtggagttgc catctatgtt aatggataca cagatccttc cgctgaggaa ttgagaaaac       420

taatgatgtt gcatggaggt caataccatg tatattattc cagatctaaa acaacacata       480

ttattgccac aaatcttccc aatgccaaaa ttaaagaatt aaaggggaa aaagtaattc       540

gaccagaatg gattgtggaa agcatcaaag ctggacgact cctctcctac attccatatc       600

agctgtacac caagcagtcc agtgtgcaga aaggtctcag ctttaatcct gtatgcagac       660

ctgaggatcc tctgccaggt ccaagcaata tagccaaaca gctcaacaac agggtaaatc       720

acatcgttaa gaagattgaa acggaaaatg aagtcaaagt caatggcatg aacagttgga       780

atgaagaaga tgaaaataat gattttagtt ttgtggatct ggagcagacc tctccgggaa       840

ggaaacagaa tggaattccg catcccagag ggagcactgc cattttttaat ggacacactc       900

ctagctctaa tggtgcctta aagacacagg attgcttggt gcccatggtc aacagtgttg       960

ccagcaggct ttctccagcc tttttcccagg aggaggataa ggctgagaag agcagcactg      1020

atttcagaga ctgcactctg cagcagttgc agcaaagcac cagaaacaca gatgctttgc      1080

ggaatccaca cagaactaat tctttctcat tatcaccttt gcacagtaac actaaaatca      1140

atggtgctca ccactccact gttcagggc cttcaagcac aaaaagcact tcttcagtat      1200

ctacgtttag caaggcagca ccttcagtgc catccaaacc ttcagactgc aatttttattt      1260

caaacttcta ttctcattca agactgcatc acatatcaat gtggaagtgt gaattgactg      1320
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                                   222
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agtttgtcaa taccctacaa agacaaagta atggtatctt tccaggaagg gaaaagttaa   1380

aaaaaatgaa aacaggcagg tctgcacttg ttgtaactga cacaggagat atgtcagtat   1440

tgaattctcc cagacatcag agctgtataa tgcatgttga tatggattgc ttctttgtat   1500

cagtgggtat acgaaataga ccagatctca aaggaaaacc agtggctgtt acaagtaaca   1560

gaggcacagg aagggcacct ttacgtcctg gcgctaaccc ccagctggag tggcagtatt   1620

accagaataa aatcctgaaa ggcaaagcag cagatatacc agattcatca ttgtgggaga   1680

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aacaactatg tcctaatctt caagctgttc catacgattt tcatgcatat aaggaagtcg   1860

cacaaacatt gtatgaaaca ttggcaagct acactcataa cattgaagct gtcagttgtg   1920

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accacctaaa accagaagaa gtagatgatt ttatcagagg ccagctagtg accaatctac   2160

caggagttgg acattcaatg gaatctaagt tggcatcttt gggaattaaa acttgtggag   2220

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agaaagaacc agtaaatggc tgtaatacag gaattttgcc acaaccagtt gggacagtct   3180
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223

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tgttgcaaat accagaacct caagaatcga acagtgacgc aggaataaat ttaatagccc    3240

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<213>   Homo sapiens
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gtaaaactga taaaaaaatc cctcaaccaa ataaaataca ataaaaaata aacggttgcc     180

cgacaatcat ttctccagtt tccaacaaca ggtaaattaa ggagtatgtg tttccataca     240

tacaccacag atccccattt ttgaataccc attttaagac aagagaaacc tagaaggttg     300

attacagctt aattttttatt actgagatgg aggagtaaac ttatcgtgtt ttgagctttg     360

ttagtgcaaa taacaatttg gtggtcactt actaaattga ctatagcatc ctgaaaaaag     420

aaatatttcc aattacggga tagccctgtt attttaattc tgacattctt agggattaa     480
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224

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acagaatgga cctggagttt ccaggagaaa aataatcacc tttgaaggtt tttagagcat      540

gtgaaattag tcaaaaaaaa aaaaaaa                                          567
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aaggttaccc agttggtaat tcatttgcac acctgttagc aagaaacaga agttgaagga      180

ctggaacaag tgaactagga aagagggaac gccaatccaa ggatagaagg acaaggacag      240

aatcaccagc actggctgaa ggcctcctgt ttcctgcgct ttctcctttt cctgtgaaat      300

ctccgaggag aagaaagaat gatggacagt ttatcctttc actgccacaa ggcctgttta      360

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227

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229

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231

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cattccttag ggcctaaatc aggaagctgt tttatcgatg gtttcctttt gggtcagtaa   180

ccagctttgg ataatttcct ctgattattc aagtcgtggg acaggtaaac tacattcagc   240

aggaactttt ctcgaggagc gttatgtcat ggaaaagaca ccaaacacag caagtatttt   300

aatgaataca ccatcccagg gggtcagtaa gctctgcctg ccaagaagac acagtgagag   360

gtgtccacag tcctgatgag g   381

<210>   179
<211>   867
<212>   DNA
<213>   Homo sapiens

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ggctgctgta gctggaggag ccccgtccgt gggaattaaa gctgcaaatg gtgtggtatt   120

agcaactgag aaaaaacaga aatccattct gtatgatgag cgaagtgtac acaaagtaga   180

accaattacc aagcatatag gtttggtgta cagtggcatg gccccgatt acagagtgct   240

tgtgcacaga gctcgaaaac tagctcaaca atactatctt gtgtaccaag aacccattcc   300

tacagctcag ctggtacaga gagtagcttc tgtgatgcaa gaatatactc agtcaggtgg   360

tgttcgtcca tttggagttt ctttacttat ttgtggttgg aatgagggac gaccatattt   420

atttcagtca gatccatctg gagcttactt tgcctggaaa gctacagcaa tgggaaagaa   480

ctatgtgaat gggaagactt ccttgagaa aagatataat gaagatctgg aacttgaaga   540

tgccattcat acagccatct aaccctaaa ggaaagcttt gaagggcaaa tgacagagga   600

taacatagaa gttggaatct gcaatgaagc tggatttagg aggcttactc caactgaagt   660

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taaggattac ttggctgcca tagcataaca atgaagtgac tgaaaaatcc agaatttcag      720

ataatctatc tacttaaaca tgtttaaagt atgttttgtt ttgcagactt tttgcatact      780

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                                                                       867
gttaaaccca aaaaaaaaaa aaaaaaa
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<210> 180
<211> 953
<212> DNA
<213> Homo sapiens

<400> 180
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tcaatcacac tgggccaaat atacaatatg tttcctttct gggagatgac aaagtcccaa      120

agcaaatccc ttcaatgagc attgcaagca ttcctcaact ggataggatc ccactcacta      180

cccaagtgtt cagcaaaatg catcaaaact gaagggtctt tctttctgaa atgacttggg      240

cacatcttac tgaactacat aatcaataca agtacatgta cacaggcaga cactttgaac      300

attacctact caatcacttt gcttttatta aggagctggg aaggaagaag gcttacaaac      360

tgatcaccag acaaagccc atgccttgtg agtaaagaaa ggcacaactc agatttaggc      420

aaatttctta atactatgat acttacttgc cgccataact ccaaggaaat ggaaagtctc      480

tcggagaaac actgaagaaa tgcattcccc atcccatatg gcttcaatgc cttaagcggt      540

taatatattc taatattaga ttagacccgc aaataaaaga cagggcaggg ctgagaatat      600

agtcttagta gtcaggtatc ctatacattc acgcttctag gtaacacaag ctgggaaagt      660

cttgttttcc agctaaatgc attatttaaa agttcattga agatcaagac ttatagcaga      720

atttggtttt ctttcagga aatattacta aaataactat gtgtatgttc atttctttaa      780

aaattttaca catgcttaar aggcatggcc tccagccact gagatgtaca gttaaagaca      840

tatttgatcc aagagagaag tacatgtgaa aggtatcctc tagtgaagac caatgataac      900

aaagcaaagc ttgtcacatt aactttgttt cacttgctgt aatgtcccaa gca            953
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<211> 513
<212> DNA
<213> Homo sapiens

<400> 181
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aacctgggaa ggtggtgctt gtcctggctg gacgctactc cggacgcaaa gctgtcatcg     120

tgaagaacat tgatgatggc acctcagatc gcccctacag ccatgctctg gtggctggaa     180

ttgaccgcta ccccgcaaa gtgacagctg ccatgggcaa gaagaagatc gccaagagat     240
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caaagataaa atcttttgtg aaagtgtata actacaatca cctaatgccc acaaggtact     300

ctgtggatat ccccttggac aaaactgtcg tcaataagga tgtcttcaga gatcctgctc     360

ttaaacgcaa ggcccgacgg gaggccaagg tcaagtttga agagagatac aagacaggca     420

agaacaagtg gttcttccag aaactgcggt tttagatgct ttgttttgat cattaaaaat     480

tataaagaaa aaaaaaaaaa aaaaaaaaaa aaa                                   513
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<210>  182
<211>  1069
<212>  DNA
<213>  Homo sapiens

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cgacgtgcgc gagaaggact tggaggacct gttctacaag tacggccgca tccgcgagat     180

cgagctcaag aaccggcacg gcctcgtgcc cttcgccttc gtgcgcttcg aggacccccg     240

agatgcagag gatgctattt atggaagaaa tggttatgat tatggccagt gtcggcttcg     300

tgtggagttc cccaggactt atggaggtcg gggtgggtgg ccccgtggtg ggaggaatgg     360

gcctcctaca agaagatctg atttccgagt tcttgtttca ggacttcctc cgtcaggcag     420

ctggcaggac ctgaaggatc acatgcgaga agctggggat gtctgttatg ctgatgtgca     480

gaaggatgga gtggggatgg tcgagtatct cagaaaagaa gacatggaat atgccctgcg     540

taaactggat gacaccaaat tccgctctca tgagggtgaa acttcctaca tccgagttta     600

tcctgagaga agcaccagct atggctactc acggtctcgg tctgggtcaa ggggccgtga     660

ctctccatac caaagcaggg gttccccaca ctacttctct cctttcaggc cctactgaga     720

caggtgatgg gaattttttc tttatttttt aggttaactg agctgctttg tgctcagaat     780

ctacattcca gattgaggat ttagtgtctt aggaaatttt tttaattttt ttttttaaa      840

gaagaaaaaa aactacataa tttctaccag ggccatatta gcagtgaaac attttaaact     900

gcagaaattg tggttttggt tcagaaacaa gttgtatatt tttcacccct gattatggga     960

aaaaatcgtt ctgtctttgt ggggttcgct ctactatgga gatcaacagt tactgtgact    1020

gagtcggccc attctgttta gaaatatatt ttaaatgttt agtaattga               1069
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<210>  183
<211>  1231
<212>  DNA
<213>  Homo sapiens

<400>  183
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ccggcggcgg ccccagcctc agttccagcg ccaacgccag caccggctgc ggctccggtt     120

cccgctgcgg ctccagcctc atcctcagac cctgcggcag cagcggctgc aactgcggct     180

cctggccaga ccccggcctc agcgcaagct ccagcgcaga ccccagcgcc cgctctgcct     240

ggtcctgctc ttccagggcc cttccccggc ggccgcgtgg tcaggctgca cccagtcatt     300

ttggcctcca ttgtggacag ctacgagaga cgcaacgagg gtgctgcccg agttatcggg     360

accctgttgg gaactgtcga caaacactca gtggaggtca ccaattgctt ttcagtgccg     420

cacaatgagt cagaagatga agtggctgtt gacatggaat ttgctaagaa tatgtatgaa     480

ctgcataaaa aagtttctcc aaatgagctc atcctgggct ggtacgctac gggccatgac     540

atcacagagc actctgtgct gatccatgag tactacagcc gagaggcccc caaccccatc     600

cacctcactg tggacacaag tctccagaac ggccgcatga gcatcaaagc ctacgtcagc     660

actttaatgg gagtccctgg gaggaccatg ggagtgatgt tcacgcctct gacagtgaaa     720

tacgcgtact acgacactga acgcatcgga gttgacctga tcatgaagac ctgctttagc     780

cccaacagag tgattggact ctcaagtgac ttgcagcaag taggaggggc atcagctcgc     840

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tcagctgaca atactgtggg ccgcttcctg atgagcctgg ttaaccaagt accgaaaata     960

gttcccgatg actttgagac catgctcaac agcaacatca atgacctttt gatggtgacc    1020

tacctggcca acctcacaca gtcacagatt gcactcaatg aaaaacttgt aaacctgtga    1080

atggacccca agcagtacac ttgctggtct aggtattaac cccaggactc agaagtgaag    1140

gagaaatggg ttttttgtgg tcttgagtca cactgagata gtcagttgtg tgtgactcta    1200

ataaacggag cctacctttt gtaaaaaaaa a                                    1231
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<210>   184
<211>   586
<212>   DNA
<213>   Homo sapiens

<400>   184
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gcaccttcct gtagggcact ggggctaggg tcacagcccc taactcataa agcaatcaaa     120

gaaccattag aaagggctca ttaagccgga cacaggaccc cagagaggaa aaagtgactt     180

gcccaaggtc gtaagcaagc tactggcatg gcaagagccc agcttcctga cggagcgcaa     240

catttctcca ctgcactgtg ctagcagctc agcagggcct ctaacctgtg atgtcacact     300

caagaggcct tggcagctcc tagccataga gcttcctttc cagaaccctt ccactgccca     360
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atgtggagac aggggttagt ggggctttct atggagccat ctgctttggg gacctagacc      420

tcaggtggtc tcttggtgtt agtgatgctg gagaagagaa tattactggt ttctactttt      480

ctataaaggc atttctctat atacatgttt tatatacctc attctgacac ctgcatatag      540

tgtgggaaat tgctctgcat ttgacttaat taaaaaaaaa aaaaaa                     586
```

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<211>   852
<212>   DNA
<213>   Homo sapiens

<400>   185
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tcaggctcgt gctaagctag cgccgtcgtc gtctcccttc agtcgccatc atgattatct      120

accgggacct catcagccac gatgagatgt tctccgacat ctacaagatc cgggagatcg      180

cggacgggtt gtgcctggag gtggagggga agatggtcag taggacagaa ggtaacattg      240

atgactcgct cattggtgga aatgcctccg ctgaaggccc cgagggcgaa ggtaccgaaa      300

gcacagtaat cactggtgtc gatattgtca tgaaccatca cctgcaggaa acaagtttca      360

caaaagaagc ctacaagaag tacatcaaag attacatgaa atcaatcaaa gggaaacttg      420

aagaacagag accagaaaga gtaaaacctt ttatgacagg ggctgcagaa caaatcaagc      480

acatccttgc taatttcaaa aactaccagt tctttattgg tgaaaacatg aatccagatg      540

gcatggttgc tctattggac taccgtgagg atggtgtgac cccatatatg attttcttta      600

aggatggttt agaaatggaa aaatgttaac aaatgtggca attattttgg atctatcacc      660

tgtcatcata actggcttct gcttgtcatc cacacaacac caggacttaa gacaaatggg      720

actgatgtca tcttgagctc ttcatttatt ttgactgtga tttatttgga gtggaggcat      780

tgttttttaag aaaaacatgt catgtaggtt gtctaaaaat aaaatgcatt taaactcaaa      840

aaaaaaaaaa aa                                                          852
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<210>   186
<211>   787
<212>   DNA
<213>   Homo sapiens


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<222>   (722)..(722)
<223>   n is a, c, g, t or u

<220>
<221>   misc_feature
<222>   (735)..(735)
<223>   n is a, c, g, t or u
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<221>  misc_feature
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<220>
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<220>
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<222>  (764)..(764)
<223>  n is a, c, g, t or u

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aaattgcaat atggatgttt ctttgtatta taaaattttt ccgctcttaa ttaaaaatta       180

ctgtttaatt gacatactca ggataacaga gaatggtggt attcagtggt ccaggattct       240

gtaatgcttt acacaggcag ttttgaaatg aaaatcaatt tacctttctg ttacgatgga       300

gttggttttg atactcattt tttctttatc acatggctgc tacgggcaca agtgactata       360

ctgaagaaca cagttaagtg ttgtgcaaac tggacatagc agcacatact acttcagagt       420

tcatgatgta gatgtctggt ttctgcttac gtcttttaaa ctttctaatt caattccatt       480

tttcaattaa taggtgaaat tttattcatg ctttgataga aattatgtca atgaaatgat       540

tctttttatt tgtagcctac ttatttgtgt ttttcatata tctgaaatat gctaattatg       600

ttttctgtct gatatggaaa agaaaagctg tgtctttatc aaaatattta aacggttttt       660

tcagcatatc atcactgatc attggtaacc actaaagatg agtaatttgc ttaagtagta       720

anttaaaaat tgtanatagg gccntcctga cnattttttt cccnaaaatt tttaacaagc       780

aattgaa                                                                 787


<210>  187
<211>  3256
<212>  DNA
<213>  Homo sapiens

<400>  187
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tgtatgtagt tggatttttt ggagtccgaa gtattccatc tgcagaaatt gaggcccaaa       120

ttgaatttgg attcaagtgg attctaaata ctttgcttat cttgaagaga gaagcttcat       180

aaggaataaa caagttgaat agagaaaaca ctgattgata ataggcattt tagtggtctt       240

tttaatgttt tctgctgtga aacatttcaa gatttattga tttttttttt tcactttccc       300
```

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catcacactc acacgcacgc tcacactttt tatttgccat aatgaaccgt ccagcccctg      360

tggagatctc ctatgagaac atgcgttttc tgataactca caaccctacc aatgctactc      420

tcaacaagtt cacagaggaa cttaagaagt atggagtgac gactttggtt cgagtttgtg      480

atgctacata tgataaagct ccagttgaaa aagaaggaat ccacgttcta gattggccat      540

ttgatgatgg agctccaccc cctaatcaga tagtagatga ttggttaaac ctgttaaaaa      600

ccaaatttcg tgaagagcca ggttgctgtg ttgcagtgca ttgtgttgca ggattgggaa      660

gggcacctgt gctggttgca cttgctttga ttgaatgtgg aatgaagtac gaagatgcag      720

ttcagtttat aagacaaaaa agaaggggag cgttcaattc caaacagctg ctttatttgg      780

agaaataccg acctaagatg cgattacgct tcagagatac caatgggcat tgctgtgttc      840

agtagaagga aatgtaaacg aaggctgact tgattgtgcc atttagaggg aactcttggt      900

acctggaaat gtgaatctgg aatattacct gtgtcatcaa agtagtgatg gattcagtac      960

tcctcaacca ctctcctaat gattggaaca aaagcaaaca aaaagaaat ctctctataa     1020

aatgaataaa atgtttaaga aaagagaaag agaaaggaa ttaattcagt gaaggatgat     1080

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ccaggtggtt tttagtcttt actgatgaaa gggtgttcat gttagtttct caaaaccct     1560

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taaagttcag tttaaccact gattgccttg ttattactag gttttttgag attaaaaaaa     2040

aaaaatccct ggtttaaaac caacaatgat gcctagtgag tatgtgtcca caggccataa     2100
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247

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cagggtagaa gagagacatc gtgcaaccca atgagtagtg aagggactgt gttgcttgtg    2160

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gtgtgcagcc tgatttaaaa ccaaaccctg aacccttta aagaacaata aaacatattt      3180

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aaaaaaaaaa, aaaaaa                                                    3256
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<211>  4080
<212>  DNA
<213>  Homo sapiens

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ggtggcgact ccagcccagt cgtggattct ggccctggcc ccgctagcaa cttgacctcg    420
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aaggtggcca tcatcattcc attccgcaac cggcaggagc acctcaagta ctggctatat    660

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atttttaaca gattagtttt tagaggcatg tctatatctc gcccaaatgc tgtggtcggg   1080

acgtgtcgca tgatccgcca ctcaagagac aagaaaaatg aacccaatcc tcagaggttt   1140

gaccgaattg cacacacaaa ggagacaatg ctctctgatg gtttgaactc actcacctac   1200

caggtgctgg atgtacagag atacccattg tatacccaaa tcacagtgga catcgggaca   1260

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ccaacttggc tcggcatgtg aattcttagc tctgcaaggt gtttatgcct ttgcgggttt   1500

cttgatgtgt tcgcagtgtc acccaagagt cagaactgta gacatcccaa aatttggtgg   1560

ccgtggaaca cattcccggt gatagaattg ctaaattgtc gtgaaatagg ttagaatttt   1620

tctttaaatt atggttttct tattcgcgaa aattcggaga gtgctgctaa aattggattg   1680

gtgtcatctt tttggtagtt gtaatttaac agaaaaacac aaaatttcaa ccattcttaa   1740

tgttacgtcc tcccccccacc cccttctttc agtggtatgc aaccactgca atcaatgtgt   1800

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257

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aacctgtcca tctgctaact attttgactg cagagccatg tccattggag cccgttccca   600

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258

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cgctcaggaa tcatgggcta tcaaagaaga acatgtgatc atccaggccg agttctatct     180

gaatcctgac caatcaggcg agtttatgtt tgactttgat ggtgatgaga ttttccatgt      240

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tgaggctcaa ggtgcattgg ccaacatagc tgtggacaaa gccaacctgg aaatcatgac      360
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<213> Homo sapiens

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cctgggaatc cagtatacccc tcagaccttg catcttcctc aggctccacc ctataccgat      180

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262

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263

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<213>  Homo sapiens

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attaggggca ggttaattgt ttggagggcc catgggaggg gaaaaagggg ggcaatttct      180

aaaacaaata ataaaaaggg aatagctcct aaaaaaaatt ttatggaaaa agggacccgg      240

gcgggggata tagggtccaa cccccacccc aaagggggggg attttctat gtaccccgtg      300

agttggggga gccaaaaggg aataattatt aaaaataagg ctaggagggt gtt             353
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<211>  487
<212>  DNA
<213>  Homo sapiens


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<400> 204

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gagacccgtg agccagctga gactgggggc tacgccagct tggaagaaga tgatgaagac   240

273

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gaggaggaag aggagaccac tgacgatcct gaatatgatc ctggctacaa ggtgaagcag    480

cgccttggcg ggggccgtgg tggcccatcc cgccgggccc ccccgtgcag cccagccccg    540

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cacggccctc gggcaggcaa gacgcggacc acctcgggct ggggagggcg acacttgggc    720

gggagaggag gagaacacgg ggggagggac caccacgtac gaatgggagg tcctcgacac    780

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<213>  Homo sapiens

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gaattatttc agtcatcctt aacatgtgac tttaccaaag accttgaagc taaacaaaca   240

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aattagggat gttcatctcc aaccaagaca ctgtcaaaat gtttcttctg atacagcagt   360

tataagtcag agccttcaaa aaacaagggc agaacaagag tacaataaaa gaagcatctg   420

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<213>   Homo sapiens

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275

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taaggaaggt aaagttaggg gactagaaga ctctaaattg gcttctacag atcaataatt     2040

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<213> Homo sapiens

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atgcaactcc gtgccagaag gtgaacgaga gggcctttgg ggcccaactg ctgccccctc      180
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277

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<213> Homo sapiens

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289

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290

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291

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292

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cttaaaaaat tctgatgacc gggattccaa gcgggattcc cttgaggagg gggagctgag       240

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cagctcggcc gagtcctcgt cagcagaatc aggctcaggt tctgaggaag aagaggagga       960

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310

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311

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312

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cgcttgcata acaaggaaaa tcaacatgtg caacagacac ttaatagtac aaatgaaata     480

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cagacttctc tcaaaaaaga tgctcaaacc aagttatcca atcaaggtga tcagaaaggt    1140

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agcctcaaag cctgtattcg ctgtaattca cctgcaaaat atgattgcta tttacaacgg    1260

gcaacctgca acgagaagg ctgtggattt gattattgta cgaagtgtct ctgtaattat    1320

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gaagataaag aggatagaca acctcttaaa atattttac aatttaatga gaaaaagttt    1620

aaaattctca atacaaatca aacaatttaa atattttaag aaaaaaggaa aagtagatag    1680
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tgatactgag ggtaaaaaaa aaattgattc aattttatgg taaaggaaac ccatgcaatt    1740

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tgtcaccttt ctaaagcttt ttttcattgt gtgtatttcc caagaaagta tcctttgtaa    1920

aaacttgctt gttttcctta tttctgaaat ctgttttaat atttttgtat acatgtaaat    1980

atttctgtat tttttatatg tcaaagaata tgtctcttgt atgtacatat aaaaataaat    2040

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agagagagct gtagtgtcac ctgacattcc ccaaaccttg tgaagcacgt tggcctaagt    180

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actcatttct aagtgcaata agggagtgtc tcacaggatt gcacctgtga catcctgatg    360

gatgcttccc tgtggccctc ctggggcaag ggtggacaga ctcagacccc cagcatggtt    420

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<213>   Homo sapiens

<400>   244
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gccaagccca accgggacct gaaactgcag gctggctccg acctccggag gcgacggcgg    1920
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315

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gaccttggcc ctcatgcaga gggtcagctg ccccgagggg atggggtcat tggccttaac   1980

cccctgcctg atgtccaggt gaacgacctc cgtggcgccc tggatgccca gctccgccag   2040

gctgcggggg gagctctgca ggtggtccac agccggcagc ttagacaggc gcctgggcct   2100

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<213>   Homo sapiens


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tcagattcaa agctgancag tagtgcgttg ccctgtaacc taagtcttgg c           171


<210>   246
<211>   302
<212>   DNA
<213>   Homo sapiens

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ccggcggttc ctacgcacag cgccgctgg  cgtcctcgcg gccccgctt  ctgcattggc   120

tcaggccccg ccgggcccga aaggcgacgg tttccggtta gtggaatcac ggtcccagtc   180

ctcgcgcggt tcctcagctc cgcctggtcc cttacggagg caaaaaacta catttcccac   240

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ca                                                                 302


<210>   247
<211>   1991
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<212> DNA
<213> Homo sapiens

<400> 247

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ccgtagcggc tattctggtg tagccacctt ctgtaaggac aatgctaccc cagtggctgc   360

tgaagaaggc ctgagtggcc tgtttgccac ccagaatggg gatgttggtt gctatggaaa   420

catggatgag tttacccaag aggaactccg ggctctggat agtgagggca gggccctcct   480

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ccgaagtaca cggacactag ctgccccagg aagttgtgtg attttaaatc acttctgtct   1920

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aaaaaaaaaa a                                                         1991
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<212>  DNA
<213>  Homo sapiens
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tgtgatacac tactggatga catcgaagat atcgtgtctc aggaagattc aaaaccacaa    180

gataggcatt ttgtaagaaa ggatgttgtc ccgaaggtac gaaggcgaaa tacccaaaaa    240

tatttgcaag aggaagaaaa cagtccacca agtgacagca ctattccagg catacagaaa    300

atttggatac gaacatgggg ttgttctcat aataattcag atggagaata tatggctgga    360

cagctagctg cttatggcta taaaattaca gaaaatgcat ccgatgcaga tttatggctc    420

ctgaacagtt gcactgtaaa aaacccagct gaagaccact ttagaaactc aattaaaaaa    480

gctcaagagg agaacaagaa aatcgtactg gctggatgcg ttcctcaagc ccagcctcgc    540

caggactacc ttaagggact gagtatcatt ggggttcagc agatagatcg tgtggtagaa    600

gttgtggagg agacaattaa aggtcactct gtgagactgc tgggtcagaa aaaggataat    660

ggaaggcggc ttgggggagc acgattggat ttgccgaaga ttaggaagaa tccactgata    720

gaaatcattt ccatcagtac cgggtgtctc aatgcttgta cctactgcaa aactaaacac    780

gccagaggaa atttggccag ttatccaatt gatgaactag tagatagagc caaacaatct    840

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tccgacagcg tactcatgga aatgaaaaga gaatactgtg tggctgactt caaaagagta   1140

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tttcctggag aaacagatca ggattttcaa gaaacagtga acttgttga agagtacaaa   1260

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aagaaccctg cgttcatggg gaagatggtt gaagtggaca tctatgaatc aggcaaacat      1560

tttatgaaag ggcagccagt atctgatgcc aaagtgtaca cgccctccat cagcaaaccg      1620

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aacatctata aagaagaata catttctaat taaaatcttc aatgaacagg aaagcgacat      1920

ctccattctc caagggcaat aatttgtact ggtcatgctg cctccttctc agccactctt      1980

cttaatgagg ctcccccctgt ctcacattga gttgggccca ttggttattt gacctaaaac      2040

ctaatcaccg ctaccatagc acatccttca aattaaactg cttttggttt acttttagca      2100

agaaatgcaa gcggttgcat tttttctgtt tgtttcaatc tctaatcttt aagtcagaac      2160

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aa                                                                   2642
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<213>   Homo sapiens

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ggcaggctga gaaaagcgag accgcgtgcg aggaccgcag caatgcagag tccctggaca      180

ggctcctgcc acctgtgggc actgggcgct ctccccggaa gcggaccacc agccagtgca      240
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agtcagagcc tcccctgctg cgtacaagca agcgtaccat ctacaccgcc gggcggccgc   300

cctggtacaa tgaacacggc acgcaatcca aagaggcctt cgccatcggc ttgggaggcg   360

gcagtgcctc tgggaagacc actgtggcca gaatgatcat cgaggccctg gatgtgccct   420

gggtggtctt gctgtccatg gactccttct acaaggtgct gactgagcag cagcaggaac   480

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<213> Homo sapiens

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ccagtgttgc agttcagaga ggttagcatg tcagggcgca ggctcggcga ggntgtgctt     180

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cccccggac tgagcgagga agaggaggct ctgcagaaga aattcaacaa gctcaagaaa     180

aagaaaaagg cattgctggc tctgaagaag caaagtagca gcagcacaac cagccaaggt     240

ggtgtcaaac gctcactatc agagcagcct gtcatggaca cagccacagc aacagagcag     300

gcaaagcagc tggtgaagtc aggagccatc agtgccatca aggctgagac caagaactca     360

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cccactttcc agccgttcca gaggagcata tctgctgatg atgacctgca agagtcatcc     480

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gatcgagacc gggaacggga cagggatcgg gagcgggatc gagaccgaga ccgagagggt     840

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322
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<213>   Homo sapiens

<400>   253

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atgaagtccg tggagacaga cagttccact gtggagcatg tgcgctgctt ccagccaccc    3780

atccaccagt ccttggccac cacttgctaa gcagaagatc ctgcagaccc ttatctggag    3840

gaggaagaga agcaggagag agaaagccac agccagcctg ccataggatc caactggaca    3900

acgtgtggga tggacctgga aacaagcacc tccccaaaca catcaccact ccctagggcg    3960

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<213>  Homo sapiens

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cggagattgt ggggggccgg cgagcgcggc cccacgcgtg gcccttcatg gtgtccctgc   180

agctgcgcgg aggccacttc tgcggcgcca ccctgattgc gcccaacttc gtcatgtcgg   240

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gcaacgggct aatccacgga attgcctcct tcgtccgggg aggctgcgcc tcagggctct   720

accccgatgc ctttgccccg gtggcacagt ttgtaaactg gatcgactct atcatccaac   780

gctccgagga caacccctgt ccccacccccc gggacccgga cccggccagc aggacccact   840

gagaagggct gcccgggtca cctcagctgc ccacacccac actctccagc atctggcaca   900

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<212>  DNA
<213>  Homo sapiens
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<400> 255

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tgtagaaatc tagtcacttg agtatcatcc ttcacaaagt tctttctatt ttttctactg     180

tacaaagttt tctgttgtca aatagcaaga gatctctgtt ttctacttgg aatgggcctg     240

gagaagggag acagcacccg ctccctccac cccttgtccc tgagcacagc atggtgacct     300

gccaagccag agggtgacct ggacactcat aactcaatgc agggccaact gtagcctctg     360

ggcggtgtcc ctgagtgagg gcaaagttgt aataacactt gttctctcct tttctccaat     420

ttgctccca                                                             429
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<210> 256
<211> 2058
<212> DNA
<213> Homo sapiens

<400> 256

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gaacaatgga agtgacaaca agattgacat ggaatgatga aaatcatctg cgcaactgct     180

tggaaatgtt tctttgagtc ttctctataa gtctagtgtt catggaggta gcattgaaga     240

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<211>   690
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<213>   Homo sapiens

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ccaccagctg cctccttctc ttggccctct tggtacaggg aggagcagct gcgcccatca     180

gctcccactg caggcttgac aagtccaact tccagcagcc ctatatcacc aaccgcacct     240

tcatgctggc taaggaggct agcttggctg ataacaacac agacgttcgt ctcattgggg     300

agaaactgtt ccacggagtc agtatgagtg agcgctgcta tctgatgaag caggtgctga     360

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atgacctgca tatccagagg aatgtgcaaa agctgaagga cacagtgaaa aagcttggag      540

agagtggaga gatcaaagca attggagaac tggatttgct gtttatgtct ctgagaaatg     600
```

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```

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cgtcatgatc ttcttcggcc tgtccccgct gctgctgggg gccgccatgg cctcagagcg     1380

ctacctgggt atcacccggc ccttctcgcg cccggcggtc gcctcgcagc cgcgcgcctg     1440

ggccaccgtg gggctggtgt gggcggccgc gctggcgctg ggcctgctgc cctgctgggg     1500
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cgtgggtcgc tacaccgtgc aatacccggg gtcctggtgc ttcctgacgc tgggcgccga    1560

gtccggggac gtggccttcg ggctgctctt ctccatgctg ggcggcctct cggtcgggct    1620

gtccttcctg ctgaacacgg tcagcgtggc caccctgtgc cacgtctacc acgggcagga    1680

ggcggcccag cagcgtcccc gggactccga ggtggagatg atggctcagc tcctggggat    1740

catggtggtg gccagcgtgt gttggctgcc ccttctggtc ttcattgccc agacagtgct    1800

gcgaaacccg cctgccatga gccccgccgg gcagctgtcc cgcaccacgg agaaggagct    1860

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gttccgccgc gccgtgctcc ggcgtctcca gcctcgcctc agcacccggc ccaggtcgct    1980

gtccctccag ccccagctca cgcagcgctc cgggctgcag taggaagtgg acagagcgcc    2040

cctcccgcgc ctttccgcgg agcccttggc ccctcggaca gcccatctgc ctgttctgag    2100

gattcagggg ctgggggtgc tggatggaca gtgggcatca gcagcagggt tttgggttga    2160

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agccactgcg cccggccttg catgctcttt gaccctgaat ttgacctact tgctggggta    2820

cagttgcttc cttttgaacc tccaacaggg aaggctctgt ccagaaagga ttgaatgtga    2880

aacgggggca cccccttttc ttgccaaaat atatctctgc ctttggtttt at           2932
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<210> 259
<211> 1177
<212> DNA
<213> Homo sapiens

<400> 259
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cctggtctca cctcgctatg gttcgtctgc ctctgcagtg cgtcctctgg ggctgcttgc     120

tgaccgctgt ccatccagaa ccacccactg catgcagaga aaaacagtac ctaataaaca    180
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gtcagtgctg ttctttgtgc cagccaggac agaaactggt gagtgactgc acagagttca    240

ctgaaacgga atgccttcct tgcggtgaaa gcgaattcct agacacctgg aacagagaga    300

cacactgcca ccagcacaaa tactgcgacc ccaacctagg gcttcgggtc cagcagaagg    360

gcacctcaga aacagacacc atctgcacct gtgaagaagg ctggcactgt acgagtgagg    420

cctgtgagag ctgtgtcctg caccgctcat gctcgcccgg ctttggggtc aagcagattg    480

ctacaggggt ttctgatacc atctgcgagc cctgcccagt cggcttcttc tccaatgtgt    540

catctgcttt cgaaaaatgt caccccttgga caagctgtga gaccaaagac ctggttgtgc    600

aacaggcagg cacaaacaag actgatgttg tctgtggtcc ccaggatcgg ctgagagccc    660

tggtggtgat ccccatcatc ttcgggatcc tgtttgccat cctcttggtg ctggtcttta    720

tcaaaaaggt ggccaagaag ccaaccaata aggcccccca ccccaagcag gaaccccagg    780

agatcaattt tcccgacgat cttcctggct ccaacactgc tgctccagtg caggagactt    840

tacatggatg ccaaccggtc acccaggagg atggcaaaga gagtcgcatc tcagtgcagg    900

agagacagtg aggctgcacc cacccaggag tgtggccacg tgggcaaaca ggcagttggc    960

cagagagcct ggtgctgctg ctgctgtggc gtgagggtga ggggctggca ctgactgggc   1020

atagctcccc gcttctgcct gcacccctgc agtttgagac aggagacctg gcactggatg   1080

cagaaacagt tcaccttgaa gaacctctca cttcaccctg gagcccatcc agtctcccaa   1140

cttgtattaa agacagaggc agaaaaaaaa aaaaaaa                             1177
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<212>   DNA
<213>   Homo sapiens

<400>   260
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cgcccgggga acccagtctg gttttgtag gggggcaggg gggggcccac ccagggccca     180

aaggggggga cccggccccc acggggggg cccaacacgg gggccttact tgaggacagt     240

cgtttaccag tcctgaacac cttactgggg cttaatactc cggatgaccg ggcgaggtca     300

ctgttacagc cctttacaaa tgaagcggca caaagaggcc gggtaactcc cccggggggta    360

cagtcgggga aggagtccgt ccggggaccc cctgcaaagc tgcctttgcc cactggattc     420

cggttttgaa aaaagg                                                    436
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<211>   878
<212>   DNA
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<213>   Homo sapiens

<220>
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<222>   (1)..(1)
<223>   n is a, c, g, t or u

<220>
<221>   misc_feature
<222>   (579)..(579)
<223>   n is a, c, g, t or u

<400> 261

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tccccactcc cttttwtaaa tagaatgcaa acaaccatcc tgaagtgtct gargggcacc        120

tgcccycacm tccctgccct ccaaaatgca gactgagaag ccaacagact gccttttctt        180

ttcttaatca ggtcactagt tcyaaatatg gtggcctgga ggtcccatag aaaaagcaaa        240

ggggtgtkaa cagtatgtat aacagcgtat ttacagggag tcacatgcgg acaaaaagct        300

acaatactga gtatcagacg acgcargkga kaacaaaggg ccggggggtgg gggsagagaa        360

ccccatgggc aaagaaaccc caggaaacgt taaactggta aatcaatggc gagttaaggc        420

ttaaaaagtg tataaaaata acacagttaa tattcaaaac ggaactccas atacagaata        480

tatagatgag tttctgtcta gttttctttt ttttcccggg gggatgatag gagggcttct        540

ctgggctctg taaatarttc ctatatacac cgacacgcnt ggctttcaga ttggggtgtg        600

tctgtggggg ctrggggcag ggtctgctcc tggraactgc ctmcccgggg atcccttccc        660

trcagagrgg cctagggcct cggcwggggg aatcmcactc catagmaggg aagacaaata        720

accccctccct agggcactgc ccccatctgw gaggaaattc tggagggaag wcmcarawcc        780

aggcccactc cctccccatc ccccwgccma cagtctgggt atggtgggag aggtagccga        840

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<210>   262
<211>   2451
<212>   DNA
<213>   Homo sapiens

<400> 262

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tgagactcca cagaaaagaa aagtttcctg agagcagaac ttctgtcctt ccctcccagt        180

tcggtactat aagaagacat gcacacaaag atgtttgtta tgattattga agtgttaaat        240

ggaagaaaaa tgttacccaa gtcttctcca aaaagaatgg tagatatttc cttgaaatgc        300
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ctaacccatt tctggatgag actcatcaat atccccttca ctccactctc tgccaactca        360

gatataattt ccattgggca ccttcacagt aatgccagga ttggggcaga gatcctgaaa        420

gagcttctta taagatggca aatgtgcctg gcaagagcat ttgtattttg tcaggtggag        480

gcatgtgctg agagttattc aactatctga aatgttgaat ttggaggttg tgaaaatatt        540

gaattatgct attagtttaa taatatctga ggcagtaaaa tagtacctga ggaatggtgc        600

ctcattctgc ccccttgcca gttgtctcct caatcctgag cttcctgctg aggttaattc        660

aagtctacta gtttattgag cacctgctat gtgctaggca ttgaggtaga cctggtcatt        720

gccctcccag agttaagggc aataggata tgcatatata ctaaacagta attacagtaa         780

agtgtggtaa gtgctttggt aggaaaaatg cgggtttcca tcaaagtaca tggcagggat        840

acctaaatct ggtctatgag tcactaaaga cttcctggat atgatggtat ctcagacgta        900

aaggtgggta gaaggtagca agggcagggg agaagagaac aggatctgga gacactccat        960

gaagactctt ctctactgca gaaattgtca tagacctaat ttttaaaaaa atgaatctga        1020

gggagtaatt caacaaatat ttattgccct caagtataat agctcagggc ctgcaagcct        1080

ggtaaggagg ggtgtgggca gggaatgggg aatagcagag cctgggaagg cagatcaccg        1140

tgttcctttta tacttcccac tgcctgagtc ccagagtcat gggacacaaa cactccagtc        1200

cccactgtct ctctagcctc tgatatgcat tctttccctg tgtatataca tgccttttcc        1260

cataaaatgc accagtctct caccacacta attctgagta cttcagagtc tcacaggtca       1320

ttctgggtct agaataggct ccccaactca gtgattataa gtaggaagag gaaaagcaac        1380

acatggggat tctgagccag gctttatgac aactaattcc tgctggagag aagagtcctg        1440

atgatgggct gtctccagat cctatcttat cttcatgcca ttgtatgggc tataacctct        1500

gcctgtaact ctctctgcta attttttattt tggcagtttt aattaaccca caattgctga       1560

gggcaattaa tacctaaaag aaagtttgat tcctcttcta agatatccta ggtagtgtca        1620

tttctaaaga agacttggtg atcactgctt gtattagtcc attttcacag tgctatgaag        1680

atactacctg atactgggta atttattaaa aaaaaaaag aggtttaatt gactgacagt         1740

tctgcagggc tggggaggcc tcaggaaact taaatcatgg tggaaggcga aggggaagca        1800

agcaccttct tcacaaggtg gcaagagaga gtgcagggga aatgctaggc acttatcaat        1860

cagccaaatc tcatgagaat tcactatcat gagaacaagg gggaaatctg ctcccatgat        1920

ctaatcaccc cccaccacga ccctccctca acacctgggg attactattg gagatttggg        1980

tggggacaca agagccaaac catatcgctg ctgttgtggg taataggga ggtgaaattg         2040

gggggacaat tcggcctctt tgtgtccaga ggttgtgcag ttatcgagtg aggtcgatca        2100

gaagtctaaa gggatctttc aaatggatag tgagttgcct tttcctatag gtgacaatca        2160
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gagatttaat gttttaagta tcatataata ggtttttctc ctgattgtga attgtaagtg   2220
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ttgttaacat tttggagtac tttctattag tgtttatttt tcccaatcct agtattttta   2340
gtaaaactac tgtttagtaa atgattttg gtaactaatt tcaaaattta tacttcaacc    2400
gtttattatt agaatgtaat gcaagatgta ttgcaataaa acttgagttt t           2451
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<211>  1145
<212>  DNA
<213>  Homo sapiens

<400>  263
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ttgccttctc cctggggctg ctcctggtgt tgcctgctgc cttccctgcc ccagtacccc    180
caggagaaga ttccaaagat gtagccgccc cacacagaca gccactcacc tcttcagaac    240
gaattgacaa acaaattcgg tacatcctcg acggcatctc agccctgaga aaggagacat    300
gtaacaagag taacatgtgt gaaagcagca agaggcact ggcagaaaac aacctgaacc     360
ttccaaagat ggctgaaaaa gatggatgct tccaatctgg attcaatgag gagacttgcc    420
tggtgaaaat catcactggt cttttggagt ttgaggtata cctagagtac ctccagaaca    480
gatttgagag tagtgaggaa caagccagag ctgtccagat gagtacaaaa gtcctgatcc    540
agttcctgca gaaaaaggca aagaatctag atgcaataac caccctgac ccaaccacaa     600
atgccagcct gctgacgaag ctgcaggcac agaaccagtg gctgcaggac atgacaactc    660
atctcattct gcgcagcttt aaggagttcc tgcagtccag cctgagggct cttcggcaaa    720
tgtagcatgg gcacctcaga ttgttgttgt taatgggcat tccttcttct ggtcagaaac    780
ctgtccactg ggcacagaac ttatgttgtt ctctatggag aactaaaagt atgagcgtta    840
ggacactatt ttaattattt ttaatttatt aatatttaaa tatgtgaagc tgagttaatt    900
tatgtaagtc atatttata tttttaagaa gtaccacttg aaacatttta tgtattagtt      960
ttgaaataat aatggaaagt ggctatgcag tttgaatatc ctttgtttca gagccagatc    1020
atttcttgga aagtgtaggc ttacctcaaa taaatggcta actttataca tattttaaa     1080
gaaatattta tattgtattt atataatgta taaatggttt ttataccaat aaatggcatt    1140
ttaaa                                                               1145
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<211>  81
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334

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<212>  DNA
<213>  Homo sapiens

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gatgggctgt ctgacatttt g                                              81


<210>  265
<211>  1024
<212>  DNA
<213>  Homo sapiens


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<221>  misc_feature
<222>  (13)..(13)
<223>  n is a, c, g, t or u

<400>  265
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gacccgcgtt tgtccgccgc ccgtgccccg ctcaatcccc gcatcaatcc cgtgaggccg    120

tttctcccgt tggctccact gtaccggggg ctgaggccca gggaggtctc gcggctccct    180

aggttatcca gctagtaaga ggcgaactgg aattctcact gtgggcccat ccatggctt     240

ttgccagagc gccagggaca cactcagttc accttctagc agggaagacc caaagatgcg    300

cgccctggc agccagggcg tcggaccagg caattcctac tgtccagcat cacctcctcc     360

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tttgggaaag tttaaacctt agccaatcgg gatcagctca gattgtgcgg tccaacccc    540

cagccaatgg ggaaaggaca cagaaacagg aactgcgtta gggttaaaaa ccacttccct    600

cctttgttgg cgggtgctct tgggattgca accagcgcaa gcagcaccct tctgcagaag    660

taaagatgcc ttgctgggaa gtcttctgtc tcagtgctgg tttttcttga ctacactgag    720

cacttgtttt caacaaattt gagggtcttc tgggatccat tctcctttgg gaggggtagc    780

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gccttaaaat tcccaggcaa gtgggtaact ctgtgcacag accaagccgc cgacgggacc    960

atcacaaaag ctttacaagg ccttaccacc ctggcaaatg aattagccga aaattctgga   1020

ctag                                                                1024


<210>  266
<211>  687
<212>  DNA
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<213>  Homo sapiens


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<222>  (503)..(503)
<223>  n is a, c, g, t or u

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agtgggggtg acggaaactg gagttcctat tgtggctatc tcttgtgtgg aaggaacagg      120

aggattctgc taattctaat aactttccca gctggtagca gggaagcatc gtatgtcctt      180

tgtgtttctc aaatctgccc aattgttctc tgctttcggg gaagctttac tcattttcta      240

aaagaaatcc aagtactgtt tggtcattac cccttagtaa aaaaaagtaa caggaggata      300

tcgtaatttt ctactgtttt attcctctgt tagaccgggc cttgacatga atgacgccgt      360

aagggagaaa gagatcttcc caatcagcaa tcaccgtaaa agcctgctgt gttcccgtta      420

aaattaggaa attctcacta gatgaattga catgggaggc atttagattt ctaatagtca      480

catagtaatt ctgcggagga atngagtcat ctttgatagc catgggatta agcgatgtta      540

attaaagtgc aaaagattac ctttctggtc ttactagaat agagtaataa aaagaaccct      600

aggtttcttt tgtttgctgg aagaaaaatc aaaattcttt aagtctgtca aaccagaact      660

ctttgaagca ctttgaacaa tgccctg                                           687


<210>  267
<211>  2140
<212>  DNA
<213>  Homo sapiens

<400>  267
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tcgccgaggc accgaggcac tcagaggagg cgccatgtca gaaccggctg gggatgtccg      120

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gtccccaggt ggacctggag actctcaggg tcgaaaacgg cggcagacca gcatgacaga      540

tttctaccac tccaaacgcc ggctgatctt ctccaagagg aagccctaat ccgcccacag      600

gaagcctgca gtcctggaag cgcgagggcc tcaaaggccc gctctacatc ttctgcctta      660
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336

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ggcggttgaa tgagaggttc ctaagagtgc tgggcatttt tattttatga aatactattt    840

aaagcctcct catcccgtgt tctcctttc ctctctcccg gaggttgggt gggccggctt     900

catgccagct acttcctcct ccccacttgt ccgctgggtg gtaccctctg gaggggtgtg    960

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ggttatctct gtgttagggg tatatgatgg gggagtagat ctttctagga gggagacact    1680

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cgttgagccc ctggaggcac tgaagtgctt agtgtacttg gagtattggg gtctgacccc    1920

aaacaccttc cagctcctgt aacatactgg cctggactgt tttctctcgg ctccccatgt    1980

gtcctggttc ccgtttctcc acctagactg taaacctctc gagggcaggg accacaccct    2040

gtactgttct gtgtctttca cagctcctcc cacaatgctg aatatacagc aggtgctcaa    2100

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<211>    4238
<212>    DNA
<213>    Homo sapiens

<400>    268
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ggtccactgt aggtgtgcca agtgtttctg ttatcctaca aagcgaagaa taaggaggag    120
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gccccgaaac ctgaccatct tgagtctccc cgaagatgtg ctctttcaca tcctgaaatg    180

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gggcatagcc tacctctaca atgaaggcct gtctgtgtct gatgaggccc gcgcagaagt    420

gaatggcctg aaggcctctc gcttcttcag tctcgctgag cggctgaatg tgggtgccgc    480

acctttcatc tggctcttca tccgccctcc gtggtcggtg agcggaagct gctgcaaggc    540

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catccatggg ctcctggtac tgcccctcat ctacttcctc ttcacccgca aaaaccccta   1620

ccgcttcctg tggggcatcg tgacgccgct ggccactgcc tttgggacct cttccagttc   1680

cgccacgctg ccgctgatga tgaagtgcgt ggaggagaat aatggcgtgg ccaagcacat   1740

cagccgtttc atcctgcca tcggcgccac cgtcaacatg gacggtgccg cgctcttcca   1800
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gtgcgtggcc gcagtgttca ttgcacagct cagccagcag tccttggact tcgtaaagat      1860

catcaccatc ctggtcacgg ccacagcgtc cagcgtgggg gcagcgggca tccctgctgg      1920

aggtgtcctc actctggcca tcatcctcga agcagtcaac ctcccggtcg accatatctc      1980

cttgatcctg gctgtggact ggctagtcga ccggtcctgt accgtcctca atgtagaagg      2040

tgacgctctg ggggcaggac tcctccaaaa ttatgtggac cgtacggagt cgagaagcac      2100

agagcctgag ttgatacaag tgaagagtga gctgcccctg gatccgctgc cagtccccac      2160

tgaggaagga aaccccctcc tcaaacacta tcgggggccc gcaggggatg ccacggtcgc      2220

ctctgagaag gaatcagtca tgtaaacccc gggagggacc ttccctgccc tgctgggggt      2280

gctctttgga cactggatta tgaggaatgg ataaatggat gagctagggc tctgggggtc      2340

tgcctgcaca ctctggggag ccagggggccc cagcaccctc caggacagga gatctgggat      2400

gcctggctgc tggagtacat gtgttcacaa gggttactcc tcaaaacccc cagttctcac      2460

tcatgtcccc aactcaaggc tagaaaacag caagatggag aaataatgtt ctgctgcgtc      2520

cccaccgtga cctgcctggc ctcccctgtc tcagggagca ggtcacaggt caccatgggg      2580

aattctagcc cccactgggg ggatgttaca acaccatgct ggttattttg gcggctgtag      2640

ttgtgggggg atgtgtgtgt gcacgtgtgt gtgtgtgtgt gtgtgtgtgt gtgtgtgtgt      2700

tctgtgacct cctgtcccca tggtacgtcc caccctgtcc ccagatcccc tattccctcc      2760

acaataacag aaacactccc agggactctg gggagaggct gaggacaaat acctgctgtc      2820

actccagagg acattttttt tagcaataaa attgagtgtc aactattaaa aaaaaaaaa      2880

aaaaa                                                                 2885
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<212>   DNA
<213>   Homo sapiens


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<223>   n is a, c, g, t or u

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aagaggggct ggggaagatt acattttttt tcctttggaa actgaatgcc ataatctcga       180

tcaaaccgat ccagaatacc gaagatcggc acaggacaga aaagcgagtc gcaggaggaa       240

gggagatgca gccgcacagg ggatgattac cctcctagga ccgcggtggc taagtcattg       300
```

caggaacggg gctgtgttct ctgctgggac aaaacaggag ctcatctctt tggggtcaca   360

gttctatttt gtttgtgagt ttgtattatt attattatta ttattattat attttanntc   420

tttggtctgt gagcaact   438

<210> 274
<211> 484
<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, t or u

<220>
<221> misc_feature
<222> (483)..(483)
<223> n is a, c, g, t or u

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ctgtgtgaaa tctggaagca agtactttgc agacaagagt agtatgagat acattttgtt   120

gaacggagca gtgatgtggt tttcaaggca gcagtggcag aggtcccatg taatggtgca   180

aggtgtggag gctttgctta gcagtttttc ccccgcagct gctccaaggt ataaaaatgg   240

gcattttggg gggctccgta gtcctgacct ccacgcctgt gacttgtgag ccattttatt   300

ctgtttgttt aaactagcta gtgtagatcc tgttgtttgt aaccaagagt gttgacatac   360

agccactatt taattgtaac cactgtcaac cttttttcctt atttacttca gatccttttg   420

tgtttaaata aaggaaaagc tgcacatcca aaaaagnaga gaaaaaaaga tggcggccga   480
agng   484

<210> 275
<211> 931
<212> DNA
<213> Homo sapiens

<400> 275
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ccaccgcaag gtcttgagag acaacattca gggcatcacc aagcctgcca ttcggcgtct   120

agctcggcgt ggcggcgtta agcggatctc tggcctcatt tacgaggaga cccgcggtgt   180

gctgaaggtg ttcctggaga atgtgattcg ggacgcagtc acctacaccg agcacgccaa   240

gcgcaagacc gtcacagcca tggatgtggt gtacgcgctc aagcgccagg ggcgcaccct   300

gtacggcttc ggaggctagg ccgccgctcc agctttgcac gtttcgatcc caaaggccct   360

347

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ttttagggcc gaccacttgc tcatctgagg agttggacac ttgactgcgt aaagtgcaac    420

agtaacgatg ttggaaggct tatgatttta ctgtgtatgt atttgggaga agaaattctg    480

tcagctccca aaggataaac cagcagttgc tttattggtc ttcagatgtg gctgcaaaca    540

cttgagactg aactaagctt aaaacacggt acttagcaat cgggttgcca gcaaagcact    600

ggatgcaagc cttgccttcc agaagcttac cagtcgggtt gccagcaaag cagtggatgc    660

aagacttgcc ctccaggagc ttaccatcac aacgaagaag acaaataaat gcataatata    720

tagacgacat aaatccatac tgtacacatt taagaataaa cagtccagta gtaagaggca    780

gtacatattc aatctgctga gaaatgtaga caataactac tataagaatc ctaatgctac    840

agaagtcact ggctgctggg aaaccgggga aaacttggct atggacgtgg gggcttgtgt    900

cggactctga ataaagagca gaatgattgg c                                   931
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<212>   DNA
<213>   Homo sapiens

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ggactacagg cgcccgccac cacgcctggc taattttgt attttagta gagacggggt     180

ttcaccatgt tggtcaggct ggtctcgatc tcttgacctc gcgatccact cgcctcagcc    240

tcccaaagtg ctgggattac aggcctgagc cactgcgcct ggcagaccac ctatattact    300

tttaaccaca aatgaaatag atgacttctt agaaaaacat aaaagcagag ctgtctcaaa    360

aaccaacaga atatctgcat agcctaaaaa ccataaagaa agcag                    405
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<210>   277
<211>   368
<212>   DNA
<213>   Homo sapiens

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cctgtctctg tggctgggct gcctggacat ttcatagaaa tgggatcaca cacggcatgt    120

cctctgtgtc tggcgtgtct cattgagcct ggagtgtctc attgagcctg cgtcctgaa    180

ggtgcgtcca cgccgtgcct gagtcagagc ttcttccttt tcatggctgg gttgtgttcc    240

agtgcatgga gggccacact acgcctcctc ctctgctgac ggccatctgg gttgtagcca    300

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348

ttccactc   368

<210> 278
<211> 239
<212> DNA
<213> Homo sapiens

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tcgtgaaggg ccgatttatc atctccagag acaattccaa gaacacgctc tatctgtaaa   120

tgaacaccct gagagtcgag gacacggcta tatattattg cgcgagagac cgagggaaat   180

tatattgtag tggtggtatt tgctttccgc ctgttggcta cttcgacccc tggggccaa   239

<210> 279
<211> 335
<212> DNA
<213> Homo sapiens

<400> 279
ggggagagct catgtcagtg aatatagatc attctgttga tacccttctt tgaatattct   60

agtgtattaa tataccatgt ttaatttaat catgtcttat taatggactg gctgttttca   120

catatttgat atatcaagtg tcttcacaac tgtgcttgca tattctttcc caaaatattg   180

aaagtccata tatttccttg tacatttta aagttgatat ctaaatcttt catgtagttg   240

caaagcatgt aatttcttgg gggagggggg ctgtaaatat tgacattta aaataaaact   300

tttaaatcag ccttaaaaaa aaaaaaaaa aaaaa   335

<210> 280
<211> 430
<212> DNA
<213> Homo sapiens

<220>
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<222> (374)..(374)
<223> n is a, c, g, t or u

<220>
<221> misc_feature
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<223> n is a, c, g, t or u

<220>
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<222> (425)..(425)
<223> n is a, c, g, t or u

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cagagcaggc actgacaagc ccacccattt ctagtgctgc ccaaggtgga ctcagcccac    120

aaaggcccca gccccagcct ttgcggatag gtttcctccg tggtgccaac aactcttgtg    180

gatttgaaag aggcaacctt tttcctcgcg tttctaaagg cctatgaaaa gggcacgtcg    240

ggaagtgcac ataagacgtt gaacatcgtt gcatgagatg ttgaagaagt acaagatttc    300

gttcttcctt ccattaaagt acaatctccc tggggagaga cacacaaagt acacatttag    360

agaccagtta tttntttttc cagattcgtt ccccggtgcc ttttttcctag gttaagnagc    420

ttttncctgg                                                           430
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<211>  972
<212>  DNA
<213>  Homo sapiens

<400>  281
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ggtccttctc tggggagggc gtggggtcta gagaggcgga gtggaggtaa ccagaggtca    120

ggagagaagc cgtaagaaca gagggaaaat ggggccagag tcggggcgca gggacgagag    180

gtcaggagtg gtcggcctgg ccctgggcgt tgactgactc gggacctggg tgcccaccct    240

cagggctggc tggcggctcc gcgcagtccc agagggcccc ggatagggtg ctctgccact    300

ccggacagca gcagggactg ccgagagcag caggaggctc tgtcccccac ccccgctgcc    360

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aggccgaggg cgaggcgccg tggacgtgga ccggcctctg catcttcgcc gcactcttcc    480

tgctcagcgt gagctacagc gccgccctca cgctcctcat ggtgggcacc cacctccagg    540

ggcccagcca gggcaggggg ttgggcagag cagcagagcc cctgacccac gccctcccct    600

caggtgcagc ggttcctctc agccacgcgg caggggaggc cccagacctc cctcgactac    660

accaacgtcc tccagcccca cgcctagccg cgggccactc acgctccacc aggcccagct    720

ttttctctgc cagcgcctga gcctccctcg ggctgcaccc tgccctgggt gggaaaaggg    780

aagcagacaa gaaaagggg catcaaggtc actactgtgg gctgatggcc agtgaacctg    840

agccagaggg gccgctcagc cgcaaggtta caggcgccga gagaaccacc agtcgcaggc    900

cccacccgaa aaccgtgtct gtcccttcaa cagagtcatc gaggaggggt ggctgctagc    960

cgtctcgagc tc                                                       972
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<210>  282
<211>  3624
<212>  DNA
<213>  Homo sapiens
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<400> 282

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ataggattct ttcttatggc tgcatcccgg atctggaaat tttacttggg gaccaggagg     120

atttgaaagg ctgcatgtac tcagaagatt tgcaagcaac actccaattc ttgtcataga     180

gctcgcagac ttctcactta tcggcttttt tccttcctta ttttttaaga attattctta     240

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cattttttctc ctagtctgtt ttttttttttc ctgctctgca cctggattgt atcttcagca     360

aacaatcggg cactttgaga actaactgga gacagtcttg tagggaagat ctgtatggaa     420

ttatctgctt ttatggtgaa cttggcattt gtgaatggga atcttgttca caatattaat     480

tgctagcaaa aacaagaaaa agaacacagg agtaaaacgt ggattttttct gaatacgcat     540

tgtgatgacc agcaattacc ttaccgacta atatccagag gagaataatt tggaagactg     600

ttgtggggaa cagcctttaa gagctggaag atgaaagctc cgattccaca cttgattctc     660

ttatacgcta cttttactca gagtttgaag gttgtgacca aaagaggctc cgccgatgga     720

tgcactgact ggtctatcga tatcaagaaa tatcaagttt tggtgggaga gcctgttcga     780

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ggactcagtt tgatgtggta caaaagttct ggtcctggag actttgaaga gccaatagcc     900

tttgacggaa gtagaatgag caaagaagaa gactccattt ggttccggcc aacattgcta     960

caggacagtg gtctctacgc ctgtgtcatc agaaactcca cttactgtat gaaagtatcc    1020

atctcactga cagtgggtga aaatgacact ggactctgct ataattccaa gatgaagtat    1080

tttgaaaaag ctgaacttag caaaagcaag gaaatttcat gccgtgacat agaggatttt    1140

ctactgccaa ccagagaacc tgaaatcctt tggtacaagg aatgcaggac aaaaacatgg    1200

aggccaagta ttgtattcaa aagagatact ctgcttataa gagaagtcag agaagatgac    1260

attggaaatt atacctgtga attaaaatat ggaggctttg ttgtgagaag aactactgaa    1320

ttaactgtta cagcccctct gactgataag ccacccaagc ttttgtatcc tatggaaagt    1380

aaactgacaa ttcaggagac ccagctgggt gactctgcta atctaacctg cagagctttc    1440

tttgggtaca gcggagatgt cagtcctttta atttactgga tgaaaggaga aaaatttatt    1500

gaagatctgg atgaaaatcg agtttgggaa agtgacatta gaattcttaa ggagcatctt    1560

ggggaacagg aagtttccat ctcattaatt gtggactctg tggaagaagg tgacttggga    1620

aattactcct gttatgttga aaatggaaat ggacgtcgac acgccagcgt tctccttcat    1680

aaacgagagc taatgtacac agtggaactt gctggaggcc ttggtgctat actcttgctg    1740

cttgtatgtt tggtgaccat ctacaagtgt tacaagatag aaatcatgct cttctacagg    1800
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aatcattttg gagctgaaga gctcgatgga gacaataaag attatgatgc atacttatca    1860

tacaccaaag tggatcctga ccagtggaat caagagactg gggaagaaga acgttttgcc    1920

cttgaaatcc tacctgatat gcttgaaaag cattatggat ataagttgtt tataccagat    1980

agagatttaa tcccaactgg aacatacatt gaagatgtgg caagatgtgt agatcaaagc    2040

aagcggctga ttattgtcat gaccccaaat tacgtagtta gaaggggctg gagcatcttt    2100

gagctggaaa ccagacttcg aaatatgctt gtgactggag aaattaaagt gattctaatt    2160

gaatgcagtg aactgagagg aattatgaac taccaggagg tggaggccct gaagcacacc    2220

atcaagctcc tgacggtcat taaatggcat ggaccaaaat gcaacaagtt gaactccaag    2280

ttctggaaac gtttacagta tgaaatgcct tttaagagga tagaacccat tacacatgag    2340

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aatccagatg aggcccacac aaacagtgcc atcctgccgc tgttgccaag ggagaccagt    2700

atatccagtg tgatatggtg acagaaaagc aagggacatc ccgtccctgg gaggttgagt    2760

ggaatctgca gtccagtgcc tggaactaaa tcctcgactg ctgctgttaa aaaacatgca    2820

ttagaatctc tagaacacga ggaaaaacag ggtcttgtac atatgttttt tggaatttct    2880

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gatagaaaac cctttttttg cttcattagt ttagttttag aatgggtttt tattttatt t    3060

cctttttaa aattttactt tgcttttaac atttccttgg ggtgcttgga caaatctatc    3120

cgatgggaca aggagcaccg gattctttct cgggttctgc ctagcatcaa ctgggccacg    3180

tcggccttca gagaacagtg caacaaatgc cagcattgcc attcggggga aaaaaaaaa    3240

aaaaaaaaaa agatgagaag aacacttgtt cataggaggg ccccaccagt cagagccctg    3300

aatctcttcc ttgtcccacc tcattcccca cctctacctt tctaatggcg gcatgatgtg    3360

taaactctgt gcaggggtgg gggcgggtct aactgtctta acattcaagt cactgctctt    3420

cagaatacac tctagaccca aaggtgtgct aatcacttca cagtgaccac tacagagtac    3480

taagaagaga agatcaaggg catgaaattg gggaagagtg ttatttccgt tttttaaatg    3540

agttgatgta cccttatata tatatacata tatatataaa tataaatata tataaaaaca    3600

acaaaacaaa acaaaaaaag aaaa                                          3624
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<210>   283
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<212>   DNA
<213>   Homo sapiens

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taccttatct gcaaatagg catataagta atattaatct ccaatggctg tcatgagcat        180

taaaccaacc gccacagagt agatgttcaa tcaaagtgag ctgttaatga caaggttatt       240

tttgttgtct tttaccccttt ttcacggttt catttccctt cctttgtcct ctaggtactt      300

acatcctctt cccatgtgca tcacttcctt tctgagtctc tctacatgac cgcctttctc       360

tttgaatatt cctgctcttg aacaacatcc tcacatttaa atttgtcccc tcttctgcca       420

tcaccaagtt tctcccgtga tataagaaat atacat                                  456


<210>   284
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<212>   DNA
<213>   Homo sapiens

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tttttatttt tggtaatttt ttcccccac caacagggt ttttttataa tcaaaaaaac        120

aaaaaaccct cgcaaaaaag ggaagggctg ggtgggctcc tggccacggg gcccccaag        180

caggatttgg aagggtcctg ggctttggag tccaaaaacc aactggggcc ccccaggttt       240

taacctcccc agctgtaatg caaagtatgc cccccaggg aggactcctc acctggtttt        300

gcccttccc aaccattcca ccaccaccca aaagggccta gggtggggg cttgcactgt         360

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<213>   Homo sapiens


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<223>   n is a, c, g, t or u

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actttgtgcc aagctctgcg ggtaggcata tttcatatct taaaaaggct tgtaattcat         180

tcagggaggc aaaagcaaaa tctgtaatta gaggttagcc ataatgttat gaaagtgcca         240

tgagaataga gagagagaat aaaatcataa agatataaat aaacatattt gaactacagg         300

tgatgtattg tcttaaatta cttctatatc atatgccaga gggccttcaa tggaaaatcc         360

taggtagaaa gacactctnt ctatgttcct accacttctg agtggacctg aataaacaga         420

tattactggt atntttattt tttcctctgt tccatattct acagagatta gct               473


<210>  286
<211>  500
<212>  DNA
<213>  Homo sapiens

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ccgggctttg ttcgcgccag aggcgctcga catctccg ggaggggagc gcgggcggag           120

cgcacagggc tagtttccag cagcggcggc gcccctttcc ctgccccacc acgcgacgtc         180

ctggccgtgg cttgggggga cccgggcgcc ctccaggtgc aggcagaggg tcgggtgccc         240

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agctgcccta gaccggccct agaccgggaa cctggaagca gatctgactt ccacttccaa         360

gggagaaacc gcctcccgca ctggcgcccc gaggggagag agaagcccag ctaggtttcc         420

gcgtggtccg cgtggttggt gaaccctcag gctggggggt gccccgcttg gcgtgcaagg         480

ccctctttgg agctgccgtg                                                     500


<210>  287
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<212>  DNA
<213>  Homo sapiens

<400>  287
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atgcctccag gtccctgata acgctctcta ggctcgttac gggcccagct ccaactgcct         180

tagcatccca gctcacagcc tctgaaaaaa acatcttggg ccctcacccc tgcatcaact         240

tgcttctatt gacaagcata ccactgaggt aggcatcact cataggggct gttgattaca         300

tccgcagact ctgatattcc agctggatta aattgaccca ttctgtgggg actgtccttg         360
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ccct                                                              364


<210>    288
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<212>    DNA
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aaccccgggg ggcaacggaa aattaatttt gaaatcggga aaatttttaa aacccccccc    240

gggggacttt gtggcccgaa accccccac cttaaaaaaa taaaaggaag gggcccgggc     300

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aggc                                                              364


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tggtcagggg actgttagtc agggatacat tttatggaag ttacaattta tagagctgga    180

aactttcaag cacagttctt tgtccaactt agtttcaact ttaacaaaca caagagtact    240

tgtagagaga aattctcctc caacgcatac tcttctggtg attaccagca ggtccactgg    300

cagcagctag attgagtgtt tgagtcagcc tggctgatta ccttaatcgc cttaatcata    360

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gagggaggct ttgcaatcac tccctgtcac tctgtcccag ctctcagtcc aacagtgata    180

aggttttgca aatctcctca ctggacttta gaaatacgat tctactcagg aacctaacag    240
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355

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tggcatgttt ctttgcatga agtgatccac ttggagctgc tactggtccc attgagtcct       360

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atcccgctgc acaagttcac gtccatccgc cggaccatgt cggaggttgg gggctctgtg       180

gaggacctga ttgccaaagg ccccgtctca aagtactccc aggcggtgcc agccgtgacc       240

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aacagcgaca gtccagcac ctacgtgaag aatggtacct cgtttgacat ccactatggc        480

tcgggcagcc tctccgggta cctgagccag gacactgtgt cggtgccctg ccagtcagcg       540

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aagcagccag gcatcacctt catcgcagcc aagttcgatg gcatcctggg catggcctac       660

ccccgcatct ccgtcaacaa cgtgctgccc gtcttcgaca acctgatgca gcagaagctg       720

gtggaccaga acatcttctc cttctacctg agcagggacc cagatgcgca gcctggggggt       780

gagctgatgc tgggtggcac agactccaag tattacaagg gttctctgtc ctacctgaat       840

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cacactcgcc cgcccactgt cctgggcgcc ctggaagccg cgggccaag cccgacttgc       1440
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gaccccaccc aagcttggca gccgagctcg tgtatcctgg ggctcccttc atctccaggg    1620

agtcccctcc ccggccctac cagcgcccgc tgggctgagc ccctacccca caccaggccg    1680

tcctcccggg ccctcccttg gaaacctgcc ctgcctgagg cccctctgc ccagcttggg     1740

cccagctggg ctctgccacc ctacctgttc agtgtcccgg gcccgttgag gatgaggccg    1800

ctagaggcct gaggatgagc tggaaggagt gagaggggac aaaacccacc ttgttggagc    1860

ctgcagggtg gtgctgggac tgagccagtc ccaggggcat gtattggcct ggaggtgggg    1920

ttgggattgg gggctggtgc cagccttcct ctgcagctga cctctgttgt cctccccttg    1980

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<211>   1282
<212>   DNA
<213>   Homo sapiens

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acattggcac cagctacatc aatccttgag tatcctattg aacctagtgg tgtattaggt     180

gcggtggcta ctaaagttcg aaggcacgat atgcgtgtcc atccttacca aaggattgtg     240

accgcagacc gagccgccac cggcaactaa cctatgacct tctgacctct gaactcttca     300

cccaatgatg acctgaccat gcctgcctgc tgatcagtta actggtaatc gcctttgctt     360

gcctgtcgtc agtgcagcga gctgaggcac ttgtccgttc gtcttaccat ctaaccaaac     420

aaaagacaaa gaaattgttg tcctccaact cagctttttt ttttttttc ctgtttgggt      480

gaaagtggtt ctagaaactg cactgaatag tagtaaagca ataaggccca attcatccca     540

cagcactgat catcttttaa tatcccaccc taagcgaacg gtaagaaggc ctctcttaag     600

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tgcatcatgc atgaaccttc ggtcagggat catcggtg aagtgatttc aaaaagtatt        780

caaaatttga tatgctgttt agtcactaca gtgccctcaa agggcagaag ttgcagcctt     840

ttttatattg cctgccaaaa tttgaagtat tagaagaaag tgtgccatga gagaaaaact     900

taaggagttt tgaaaagtaa tgcaaataac aaaactgcaa cactattttt aaaaagataa     960

atatctgagt taaaattact gaatctttat tttacaccta aaaaaatatg agaacaaggt    1020
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acatgcatta tgtgtcacat tactgggcaa actgttcaag tattttttt taaacctccc    1080

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taatgaaatt gtagataaag tgtagtgcat tgaaacaaat gaacaaaaag tagatacttt    1200

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atactttcaa gtgttataaa aa                                             1282
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<213>  Homo sapiens

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ttcctgcggc tggtagggca gctcaagaga gtcccacgaa ctggctgggt atacagaaat    180

gtccagaggc cggagagcgt ttcagatcac atgtaccgga tggcagttat ggctatggtg    240

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ccagaggacc tcagaaagga gctctatgaa ctttgggaag agtacgagac ccaatctagt    360

gcagaagcca aatttgtgaa gcagctagac caatgtgaaa tgattcttca agcatctgaa    420

tatgaagacc ttgaacacaa acctgggaga ctgcaagact tctatgattc cacagcagga    480

aaattcaatc accctgagat agtccagctt gtttctgaac ttgaggcaga aagaagcact    540

aacatagctg cagctgccag tgagccacac tcctgagaca ctctctaaat tgctgcactc    600

ctgtaacaaa cattattttt ccatttcatt gtattgtgtt ttgccattgt tggtctgttg    660

atttccctag atgtgagtct gtttgttttc aattgtctga acttcagcaa gaaatgtgat    720

acaacttggg cactaaaaga agccacagaa caggaagcgg tcatgaaagt gccatggatg    780

aacactggag gtggcagtgc ctgtttatga actaaataaa taaatattaa acacctaaaa    840

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cgaaggctag gttcattgaa taatagaaaa tttcattatg attgctttta agaacagatt    960

cttcagctga tttagtgata agaatccaga aaagaaaatg tactagtgat gtattctctc   1020

cccagatgaa attgctgcct tattcagatt tactctcttg agccagattt tgaatttcac   1080

tgcagactgc ttcagacttc taatcatagg cttgtaaacc tactaatagg ctctgcccct   1140

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atttatcatc aggtgagaaa tataaatagg aactggggtc attgagcctc aggtagggaa   1320
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<210> 294
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<212> DNA
<213> Homo sapiens

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<223> n is a, c, g, t or u

<220>
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<222> (653)..(653)
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cagcagttca gccagttgct ccaagatgcc caccgcttgg cacagcgggt taccctgcag   180

gttgaggagg accagcctgg ggcaggaggc aagaggctgg agcactgcag gctgctggag   240

gcggttgttg cacagtagca gctcctgcag ccggggtagg ttggtgacgc cgtctaggga   300

ctctatggca ttatcactgg cctgcagcac ctgggggcag gaagggcagg gaggcaggac   360

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cagggcagcc agtgcaggtg gcagggttcg gagacgattg tgtgacaagt cangatgggt   660

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<212> DNA
<213> Homo sapiens

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acggaagctg ccttttagag cctttcgcac agatgccaga aaaatccaca ctgcccctgc   180

ccgaaccatg ttcctgctgc gtcccctgcc cattctgttg gtgacaggcg gcgggtatgc   240

agggtaccgg cagtatgaga agtacaggga gcgagagctg gagaagctgg gattggagat   300

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cgtctacagc ctgtacatct ggacgtttgg ggtgaacatg aaagaggccg ctgtggagga     480

cctgcatcac taccgcaacc tcagcgagtt cttccggcgc aagctgaagc cgcaggcccg     540

gcctgtctgt ggcctgcaca gcgtggtgag gcctgaccct ttcctcctgc aggaaacagg     600

actttttcct gcctccccag cacagccccc ctggtctcca gcgtatctgg aaggggcagg     660

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aagcctctcc tgcccttcca gattagccca tcggatggaa ggatcctcaa ctttgggcag     780

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cagactgtgg atgcctctcc cccagcagag ccacacagcc ttcgtgacaa ctgctttccg    1920

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360

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tatgggaaag ttgctgctat tgattcaggg tctgtcttgg aggcagagga cccttggtgg    2280

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ccccagtggc ggggacaggg ccagatttca tgttgaccct ggggatgctg tgaatttctc    2400

ctgcaggaga gacatcattg aattttttca actgtatcag tagcacagta tttttgtatg    2460

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<213>  Homo sapiens

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ctcggagttc acctgcagga aagtatgcct cagactcctc ccttttcagc aatgtttgac     180

agcagtggtt acaatcgaaa cctctatcag tctgcagagg acagctgtgg agggttgtat     240

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aatgtggatt actatccaga tagaacatac atatttacct tcctactcag ttctcggtta     360

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gtcctggcaa aaatcagctc cacatccaca gatcggctca cagttctcaa gaccaagcca     720

cagtctatac aaagggatat cattactgtc tgcaacgacc cttacacgtt ggcccagcag     780

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cgaaacttag aagcttacgt ggaatggttt aatcgcctca gctacttggt tgctacagaa     960

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ctgactgcag actttgtttc cccttagtat gtgctgtgtt gtaaattttt ctcctccctc     2160

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<213>  Homo sapiens

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tcagaggatt tgactttatt tgatgagatg ccacttatcc ccagaactat actagaggaa     180

ggtcagacat gtgtggaact cattagactc aggattccat cgttagtcat tttagacgat     240

gaatctgaag cacagcttcc agaattttta gcagacattg tacaaaaact tggagggttt     300

gtccttaaaa aattagatgc atctatacaa catccgctta ttaaaaaata tattcattca     360

ccattaccaa gtgctgtttt gcagataatg gagaagatgc cattgcagaa attgtgtaat     420

caaataactt cgctacttcc aacacacaaa gatgccctga ggaagttctt ggctagttta     480
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accgatagca gtgagaaaga gaaaagaatt attcaagaat tggcaatatt caagcgcatt      540

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caccatactg ccaaactccc agcagatctg cgactttcta tttcagtaat agacagtagt      660

gatgaagcta ctattcgtct ggcaaacatg ttgaaaatag aacagttaaa gaccactagc      720

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cagcttatgt tatgggtcct tgagaatcta tcttctctta aaaatgagaa tccaaatgtg      840

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ggtgaactct ttgaccctga tatagaagta ctaaaggatc tcttttgtaa tgaagaagga      960

acctatttcc caccctcagt ttttacctca ccagatattc ttcactcctt aagacagatt      1020

ggtttaaaaa acgaagccag tctcaaagaa aaggatgttg tgcaagtggc aaaaaaaatt      1080

gaagccttac aggtcggtgc ttgtcctgat caagatgttc ttctgaagaa agccaaaacc      1140

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ccccggtcat catctcctcc atgacgatgc tggagaagct ctcggacacc tacacctgct      420

tctccacgga aaatggcaac ttcctgtatg tccttcacct gtttggagaa tgcctgttca      480
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cctcccctcc tccctctttt cccctcccca ggagaaaaag acccccaagc agaaaaaagt    180
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ccacaaggcc tccgccctct gtcccaacgg ggccctggac ctgccccag ccgctttgca      1980

gcctgccgcc ccctcctcat caattgcaca gccgtcgact tcttggttac attcccacag      2040
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cccacccccca ccttgaaagg ttttgttttg tactctctta attttgtgcc atgtggctac     2220

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gctgtttaaa gtctttgtag cgtttaaaaa atatatatat atacataact gttatgtagt      2400

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<212> DNA
<213> Homo sapiens

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acaagctgtg atgtgagttc agcacaccaa ccttccctgg cctgaagttc ttccttgtgg       180

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aaggttccca atgggaaaac tgaggcacca agggaaaaag tgaaccccaa catcactctc       300

cacctgggtg cctattcaga acacccaatt tctttagctt gaagtcagga tggctccacc       360

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gaaacattat gccttaagta atgttaattc ttatttaagt tattgatgtt ttaagtttat       780

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<212> DNA
<213> Homo sapiens

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ctggaacatc aggatgggac catgtttgaa aatcgggtct ttccaaatgt aattaagtaa   180

ggcgaggcca tactgcattt acaatgggcc caatccagtg tccctatgag agacggaaga   240

ggagacacag acacaaagca ggaggccaca taaagacaga ggcagagact gaagtgatgc   300

tgccccaagc ccaggggatg cctggagtcc ccaggagctg ggagaggcag gaagggaccc   360

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<212>   DNA
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tgattacaca ataccaccta tggagaaagc tgttgtgaaa acggacattc agatagcgct   240

ccccttctggg tgttatggaa gagtggctcc acggtcaggc ttggctgcaa aacactttat   300

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tatgatcaag gaaaagatcg ttaaaaaaaa acacaagaa gtttttcttt gtgtttggat   720

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tcttcactag tctaaaaact tctttttaat cttaagattc tttgtgatga gggtgagaaa   1080

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<210> 314
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<212> DNA
<213> Homo sapiens

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gtccctacct cataagggat attgtgagga tggaaagcga aagtgtgaga aaatacctcc       1860

caagtgcctg gtacatagtg ggtgctaaat aaaccacttt ttgtctgcaa aaaaaaaaa       1920

aaaaaaaaaa aaaaaaaaaa a                                                 1941


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<212>   DNA
<213>   Homo sapiens

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cagtcccctg tcctggtcat ctatcaagat aacaagcggc cctcagggat ccctgagcga        180

ttctccggct ccaactctgg gagcacagcc actctgacca tcagcgggac ccaggctatg        240

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<210>   316
<211>   3579
<212>   DNA
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<213> Homo sapiens

<400> 316

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accatgccaa tgttgtaaag gcctgtgatg ttcctgaaga attgaatatt ttgattcatg   360

atgtgcctct tctagcaatg gaatactgtt ctggaggaga tctccgaaag ctgctcaaca   420

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ggtctgggat tcgatatttg catgaaaaca aaattataca tcgagatcta aaacctgaaa   540

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ccatggtatt tgaatgtatt gctggatata ggcctttttt gcatcatctg cagccattta   780

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